

C2.2# - UTILIZATION AND REMOVAL OF INCLUDED PRODUCTS (4/03). Unless otherwise agreed in writing, or as specified in C2.211# - Optional Removal of Non-sawtimber Products, Purchaser is required to pay for and remove the following products described in A2 of the contract:

Sawtimber is the boles of trees meeting Sawtimber Product specifications as listed in A2 of the contract.

Non-sawtimber is the boles of trees meeting Non-sawtimber Product specifications as listed in A2 of the contract, but that do not meet the minimum piece specifications for Sawtimber Products. Non-sawtimber removal is only required in Cutting Units **N/A**. Only the volume of non-sawtimber in the cutting units listed above is included in the estimated volume shown in A2. If the purchaser and the Forest Service agree to remove non-sawtimber from cutting units other than those listed above this non-sawtimber must be measured and paid for at the rates shown in A4.

C2.211# -OPTIONAL REMOVAL OF NON-SAWTIMBER PRODUCTS (01/07). Purchaser shall fall all trees designated for cutting. Notwithstanding the requirements of B2.2, within **all** cutting units, **all** Non-sawtimber Products meeting utilization standards in A2 shall either be decked at the landing or removed, at the option of the Purchaser. Unless otherwise agreed, if Purchaser elects the decking option, the Non-sawtimber Products shall be limbed and decked in such a manner as to facilitate loading at a later date. Payment for this product shall be made as per C4.225. If Purchaser elects to remove this product, then payment shall be made after the product is presented for scaling.

If the Purchaser requests, and the Forest Service agrees, Non-sawtimber Products may be left in the harvest area in lieu of decking at the landing.

C2.303# - DEAD TREES (10/04). Notwithstanding the designations for cutting in other provisions of this contract, **dead Douglas fir, ponderosa pine, western larch** standing trees over **30 feet** in height and **20 inches** diameter at breast height and dead Douglas fir, ponderosa pine, western larch standing trees meeting Utilization Standards stated in A2 will be left standing in Cutting Unit(s) **ALL**.

Upon agreement by the Forest Service, dead trees may be felled when necessary for safety under the State Safety Code. Unless otherwise agreed in writing, all dead trees which are required to be left standing and are felled for safety reasons shall be left on site.

C2.358# - INDIVIDUAL TREES (LEAVE TREE MARKING) (1/09). Cutting Units **1, 2, 2A, 2B, 2C, 4, 5, 5A, 6, 7, 8, 9, 11, 27, 29**, all trees (live and dead) meeting minimum merchantable tree specifications of A2 are designated for cutting except trees reserved from cutting. Trees reserved from cutting have been marked with a horizontal stripe of **ORANGE** paint at or above eye level, and a stump mark consisting of a horizontal stripe of **ORANGE** paint on the downhill side of the tree at ground level.

The boundaries of units where leave trees are marked, are marked on three (3)sides of the cutting unit boundary trees with vertical stripes of **ORANGE** paint extending from diameter breast height (DBH) upwards approximately three (3) feet. The middle stripe of paint faces the cutting unit and the other two face on line with the cutting unit boundary. In addition, each boundary tree has a horizontal stump mark painted on the downhill side of the tree at ground level. Trees used for boundary designation are not to be cut. All hardwood trees are not to be cut.

C2.38# - SPECIES DESIGNATION (1/09). Within the cutting units shown below, listed species are designated for cutting when they (a) meet utilization standards and (b) are smaller than the stump diameter listed below and shown on the Sale Area Map:

Unit	Designated Species	Maximum Stump Diameter – (Inches)
16, 22, 56, 57, 58, 59, 59A, 60, 61, 62	LP	N/A
54, 55	LP, DF	N/A
10, 13, 13A, 13B, 14, 14A, 14B, 15, 18, 19, 20, 21, 25, 26	LP, AF, ES	N/A

Stump diameter will be measured at N/A inches above ground level on the uphill side of the tree. A minimum stump height of N/A inches above ground level on the uphill side shall be left in the units listed above.

In addition, any trees within the cutting unit boundary that are wind thrown prior to Purchaser's logging in the immediate vicinity which meet Utilization Standards in amounts less than specified in B2.133 are designated for cutting.

Trees of the species listed above that are designated to be left standing are marked with a horizontal stripe of ORANGE paint at or above eye level, and a stump mark consisting of a horizontal stripe of ORANGE paint on the downhill side of the tree at ground level.

In addition to those species listed above, trees marked with a horizontal stripe of BLUE paint at or above eye level, and a stump mark consisting of a horizontal stripe of BLUE paint on the downhill side of the tree at ground level are also designated for cutting.

The boundaries of units are marked on three (3) sides of the cutting unit boundary trees with vertical stripes of ORANGE paint extending from diameter breast height (DBH) upwards approximately three (3) feet. The middle stripe of paint faces the cutting unit and the other two face on line with the cutting unit boundary. In addition, each boundary tree has a horizontal stump mark painted on the downhill side of the tree at ground level. Trees used for boundary designation are not to be cut.

Upon agreement with Forest Service, dead trees designated to be left standing may be felled when necessary for safety under the State Safety Code and other dead trees designated in their place.

C4.211 - DOWNPAYMENT (6/07). The downpayment amount shown in A18 may not be applied toward any other payment required under the provisions of this contract, except damages determined pursuant to B9.4, transferred to other timber sales, or refunded until (a) stumpage value representing 25 percent of the total bid value of the timber sale has been charged and paid for, or (b) the estimated value of the unscaled timber is equal to or less than the amount of the downpayment, or (c) if 36 CFR 223.49(e) is applicable, the estimated value of the unscaled timber is equal to or less than the amount of the downpayment.

If Forest Service makes a determination that this contract should not have been included under increased downpayment requirements (36 CFR 223.49(e)), the downpayment shall be revised and applied in accordance with 36 CFR 223.49(f).

C4.212 - Temporary Reduction of Downpayment (8/09). Notwithstanding B4.211 or C4.211, upon the Purchaser's written request Forest Service may temporarily reduce the downpayment when Purchaser's scheduled operations are delayed or interrupted for 30 or more consecutive days, or the contract term is extended for 30 or more consecutive days for any of the following reasons:

- (1) Forest Service requests or orders Purchaser to delay or interrupt operations for reasons other than breach;
- (2) Purchaser interrupts or delays scheduled operations to work on a sale designated by the Forest Service as in urgent need of harvesting; or
- (3) An adjustment of the contract term authorized upon a determination of substantial overriding public interest, including a market-related contract term addition, or an urgent removal contract term extension under 36 CFR 223.53.

When Purchaser is not cutting or removing timber under contract during a qualifying period of delay, interruption, or extension listed above the downpayment may be reduced to \$1000 or 2 percent of the downpayment amount stated in the contract, whichever is greater. The Purchaser must restore the downpayment to the full amount stated in the contract within 15 days from receipt of the bill for collection and written notice from the Contracting Officer that the basis for temporarily reducing the downpayment no longer exists. Purchaser shall not cut or remove timber on a contract where the downpayment has been temporarily reduced until the downpayment amount stated in the contract is fully restored.

C4.225 - ADVANCED PAYMENT FOR NON-SAWTIMBER (5/12). Unless agreed otherwise, prior to beginning of harvest operations in a cutting unit, Purchaser must notify the Forest Service of the decision to either remove or deck Non-sawtimber Products shown in A2, if Special Provision C2.211# - Optional Removal of Non-sawtimber Products is included in the contract.

Unless otherwise specified in C4.228#, if Purchaser selects the option to deck these products in lieu of removal, then advance cash deposit for stumpage, plus the required slash disposal deposits for the volume of Non-sawtimber Products shown in the timber sale cruise report shall be billed for as a lump sum at the time that Purchaser notifies the Forest Service of the decision to deck Non-sawtimber Products. All such material shown shall be reported as cut, and charged for, on the timber sale statement of account during the month in which the billing is paid.

C4.228# - SLASH DISPOSAL DEPOSIT SCHEDULE (2/09). Purchaser shall make a cash deposit for slash disposal activities to be performed by the Forest Service.

Upon completion of skidding activities in each cutting unit, the Purchaser shall be billed for the amount(s) shown in the table below.

Cutting Unit Number	Required Deposit(s)
1	\$753.40
2	\$490.82
2a	\$785.03
2b	\$437.20
2c	\$229.60
4	\$197.98
5	\$197.98
5a	\$277.72
6	\$197.98
7	\$595.30
8	\$589.81
9	\$635.18
10	\$833.15
11	\$163.61
13	\$97.61
13a	\$295.59
13b	\$261.22
14	\$131.98
14a	\$327.21
14b	\$360.21
15	\$911.52
16	\$842.78
18	\$158.11
19	\$475.69
20	\$1,109.49
21	\$714.92
22	\$944.51
25	\$357.46
26	\$595.30
27	\$675.05
29	\$397.33
54	\$125.11
55	\$373.96
56	\$435.82
57	\$1,274.47
58	\$279.09
59	\$435.82
59a	\$61.87
60	\$932.14
61	\$870.27
62	\$310.71

C5.102# - CONSTRUCTION OF TEMPORARY ROADS (2/97). Unless otherwise agreed in writing, temporary roads as shown on the Sale Area Map and as designated on the ground, shall be constructed and closed in accordance with the attached plans and specifications. Location has been designated by existing historic road template for roads 1314, 21, and 2526. Centerlines of new temporary road locations for road 8910 and 1314 are marked on the ground with pink flagging. Typical specifications are attached for clearing limits, culvert and drainage dip installation, culvert removal, waterbar installation, berm installation and recontouring.

Purchaser and Forest Service agree that if the Purchaser elects not to build the road, or minor changes in locations or designs are mutually agreed to, there will be no adjustment in costs allowances as extra skid costs or mitigation measures would offset cost differences.

Notwithstanding B2.4, timber within the clearing limits of these temporary roads have been included in the quantity estimate in A2.

C5.102 # - ATTACHMENT

Work:

Unless otherwise agreed, excavator construction/recontouring will be required for all New Temporary Road Construction. Following completion of purchaser's use of constructed temporary roads, the purchaser will place the excavated material and slash back on the road. Construction of the roadway shall be in conformance with the dimensions shown on the attached drawing. An excavator will be used for the construction and recontouring.

Location and Clearing:

Road centerline for new temporary road construction has been flagged with pink flagging. The established clearing limits for temporary road right-of-ways is 15 feet slope distance, each side of the designated centerline. Slash shall not be deposited in stream courses. Construction slash shall be windrowed outside of clearing limits, approximately parallel to the roadway and outside the toe of the fill slope. Slash will be re-used when the road is recontoured. Slash shall be placed on recontoured portion of road.

Excavation and Embankment:

Pioneering operations shall not undercut the final back slope, deposit material outside the roadway limits, or restrict drainage. Embankment may be placed by side casting and end dumping. Road width shall not exceed the specified dimensions by more than 2 feet. A motor grader finish is not required. Unless otherwise agreed, drivable waterbars/drain dips are to be constructed in accordance with the attached drawings and maintained as designated by the sale administrator or marked on the ground.

Erosion Control:

Unless otherwise agreed, all temporary roads constructed will have two (2) grass seed applications. (1) The first application will occur after road construction is complete and the (2) second application will be after the temporary road has been recontoured. If the temporary road is built and recontoured within the same operating season, only 1 grass seeding will be applied after the road is recontoured. Seeding shall be accomplished as outlined in C6.601# Erosion Control Seeding (2/02).

Road Obliteration:

Unless otherwise agreed, temporary road obliteration shall be completed as stated under C6.632# and within 15 days of purchasers final uses of road.

TEMP ROAD 1314 specifications for construction

MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 895
0.031	1+60	Remove Berm and Install Temporary Barrier
0.062	2+80	Blade out Existing Waterbar and clean ditch
0.059	3+10	Existing 18" CMP-clean if needed
0.076	4+00	Construct Drain Dip at Existing Water Bar-clean out ditch
0.062	5+30	Blade out Existing Waterbar and clean ditch
0.108	5+70	Existing 18" CMP-clean if needed
0.062	6+30	Blade out Existing Waterbar and clean ditch
0.145	7+70	Switchback
0.164	8+65	Construct Drain Dip-Intercept Ditch
0.201	10+60	Install 24" x 32' CMP-On Stream
		Conserve Riprap Previously placed in Stream Restoration
		and stock pile for future decommissioning
0.220	11+60	Blade out Existing Waterbar and clean ditch
0.257	13+55	Install 18"x 32' CMP-On Stream
		Conserve Riprap Previously placed in Stream Restoration
		and stock pile for future decommissioning
0.275	14+50	Construct Drain Dip-Intercept Ditch
0.303	16+00	Blade out Existing Waterbar and clean ditch
0.327	17+25	Construct Drain Dip-Intercept Ditch
0.366	19+30	Existing 18" CMP-clean if needed
0.401	21+15	Construct Drain Dip-clean out ditch(don't intercept)
0.438	23+10	Blade out Existing Waterbar and clean ditch
0.468	24+70	Grade Crest
0.478	25+25	Grade Sag
0.516	27+25	Blade out Existing Waterbar and clean ditch
0.554	29+25	Construct Drain Dip-Intercept Ditch
0.592	31+30	Blade out Existing Waterbar and clean ditch
0.616	32+50	Construct Drain Dip-Intercept Ditch
0.640	33+80	Blade out Existing Waterbar and clean ditch
0.644	34+00	Existing 18" CMP-clean if needed
0.678	35+80	Construct Drain Dip-clean out ditch(don't intercept)
0.739	39+00	Existing 18" CMP-clean if needed
0.760	40+15	Turnaround
		Begin New Temp Road Construction. Install dips/waterbars, culverts as designated by Forest Service Sale Administrator.

TEMP ROAD 1314 specifications for road closure

MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 895
0.031	1+60	Construct Berm
0.053	2+80	Construct Waterbar
0.059	3+10	Existing 18" CMP
0.076	4+00	Construct Waterbar
0.100	5+30	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.108	5+70	Existing 18" CMP
0.119	6+30	Construct Waterbar
0.145	7+70	Switchback
0.164	8+65	Existing Drain Dip-Built under C5.102-Tin Mule T.S.
0.201	10+60	Remove Existing 24" CMP-DETAILS SHOWN ON DRAWINGS
0.220	11+60	Construct Waterbar
0.257	13+55	Remove Existing 18" CMP-DETAILS SHOWN ON DRAWINGS
0.276	14+50	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.303	16+00	Construct Waterbar
0.327	17+25	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.363	19+15	Construct Waterbar
0.366	19+30	Existing 18" CMP
0.401	21+15	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.438	23+10	Construct Waterbar
0.468	24+70	Grade Crest
0.478	25+25	Grade Sag
0.516	27+25	Construct Waterbar
0.554	29+25	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.592	31+30	Construct Waterbar
0.616	32+50	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.640	33+80	Construct Waterbar
0.644	34+00	Existing 18" CMP
0.678	35+80	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.739	39+00	Existing 18" CMP
0.760	40+15	Turnaround
		End Work
		Begin New Temp Road obliteration as specified in C6.632#.

TYPICALS FOR TEMPORARY ROAD CLEARING LIMITS AND CULVERT INSTALL
(APPLIES TO NEW CONSTRUCTION ONLY)

TEMPORARY ROAD CLEARING LIMITS

Not to Scale

MAXIMUM CLEARING LIMITS 30 FEET

ROAD TEMPLATE 12'

OUTSLOPE 3%

REMOVE SHOULDER BERMS & DAYLIGHT TO DRAIN

GENERAL NOTES

CLEARING AND GRUBBING:
TREES, STUMPS, ROOTS AND OTHER VEGETATIVE MATERIAL WITHIN THE CLEARING LIMITS SHALL BE CLEARED, GRUBBED, REMOVED, AND DISPOSED OF AS FOLLOWS: DISPOSE OF MERCHANTABLE TIMBER ACCORDING TO THE PROVISIONS OF THE TIMBER SALE CONTRACT, STUMPS AND SLASH SHALL BE REUSED WHEN THE ROAD IS RE-CONTOURED

INSTALLATION OF 18" - 36" CORRUGATED STEEL PIPE:
AFTER THE BEDDING IS PREPARED AND THE PIPE IS PLACED, PLACE SELECTED MATERIAL IN LAYERS NOT EXCEEDING 6 INCHES LOOSE THICKNESS, AND COMPACT THE MATERIAL UNDER THE HAUNCHES AND ALONGSIDE THE PIPE USING A MECHANICAL TAMPER. USE MATERIAL THAT IS READILY COMPACTIBLE AND FREE OF FROZEN LUMPS, CHUNKS OF HIGHLY PLASTIC CLAY, OR OTHER OBJECTIONABLE MATERIAL. DO NOT USE ROCKS LARGER THAN 3 INCHES IN GREATEST DIMENSION WITHIN 12 INCHES OF THE PIPE. ON EACH SIDE OF THE PIPE, PLACE AN AREA OF COMPACTED MATERIAL AT LEAST AS WIDE AS THE DIAMETER OF THE PIPE. COMPACT THE BACKFILL WITHOUT DAMAGING OR DISPLACING THE PIPE. ENSURE THAT BACKFILL DENSITY EXCEEDS THE DENSITY OF THE SURROUNDING EMBANKMENT.
CONTINUE BACKFILLING AND COMPACTING UNTIL THE BACKFILL IS A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE CULVERT.
AFTER BEDDING AND BACKFILLING THE PIPE, PROTECT IT WITH AN ADEQUATE COVER OF EMBANKMENT BEFORE HEAVY EQUIPMENT IS PERMITTED TO CROSS DURING ROADWAY CONSTRUCTION.

PRIOR TO BEGINNING WORK ON STREAM CULVERTS, REVIEW THE STATE 124 PERMIT ISSUED AND FOLLOW THE REQUIREMENTS. NO WORK SHALL OCCUR ON STREAMS BEFORE JULY 15.
IF STREAM FLOW EXISTS ON THE SITE AT THE TIME OF WORK WITHIN THE STREAM BANKS, THE STREAM SHALL BE DIVERTED AROUND THE WORK AREA BY EITHER A VISQUINE LINED CHANNEL, A DIVERSION PIPE, PUMPING, OR OTHER CONTRACTOR PROPOSED METHODS, AS APPROVED BY THE ENGINEER. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE FLOWING STREAM.
APPLY SEED AS PER TIMBER SALE CONTRACT PROVISION C6.601

ROAD SECTIONS WITHOUT DITCH

CONSERVE RIPRAP FROM EXCAVATION AND ARMOUR INLET

STREAM CHANNEL

4' RD. TOP OF SUBGRADE

Obtain suitable material for slash barrier from shoulders and outslope and place on fill slope. Mat down slash to form a compact and uniform filter.

LAY CULVERT 4' BELOW NATURAL FLOWLINE OR AS DESCRIBED IN ROAD LOGS

TYPICAL INSTALLATION IN EMBANKMENT

NO SCALE

TIN MULE C5.102# AND C6.632#			
TEMPORARY ROAD CONSTRUCTION			

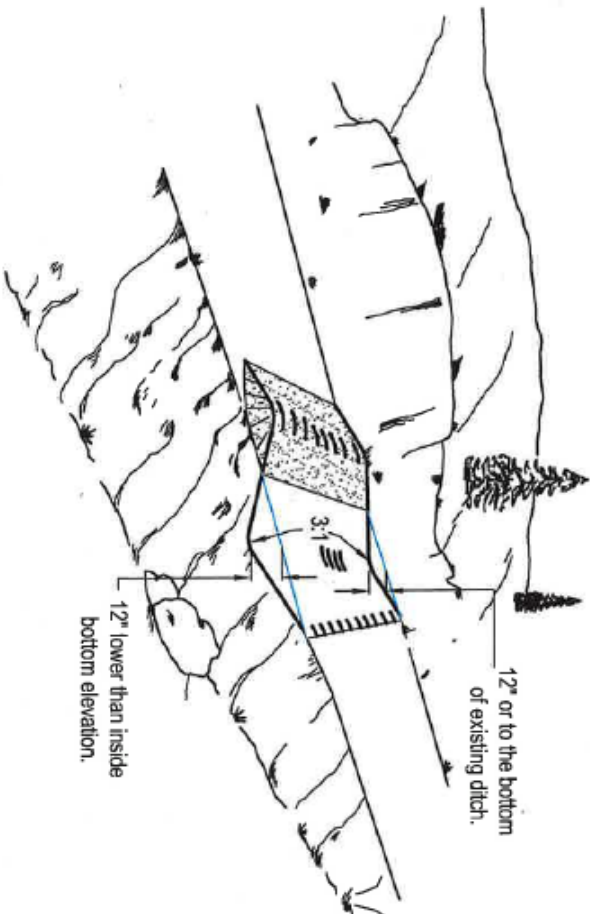
TYPICALS FOR WATERBARS AND DRAIN DIP CONSTRUCTION
(applies to existing historical road templates and new construction)

WATERBAR INSTALLATION

Not to Scale

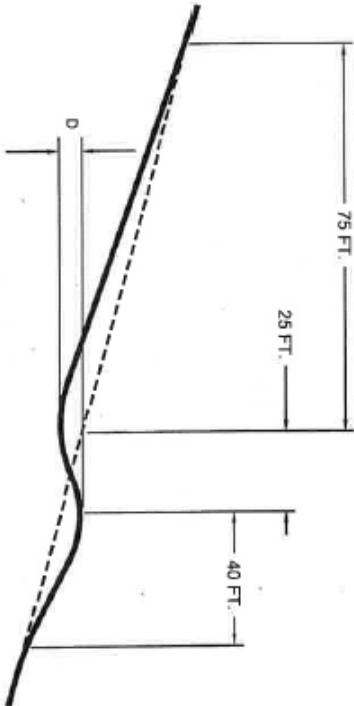
NOTES:

1. DO NOT DEPOSIT ANY EXCAVATED MATERIAL ONTO EXISTING FILL SLOPES.
2. WHEN BUILT ON DITCHED SEGMENTS OF ROAD, CONSTRUCT WATERBARS TO THE INTO THE EXISTING CUT SLOPE AND TO INTERCEPT, BLOCK, AND DRAIN ACROSS THE ROAD.
3. SEED AND MULCH ALL DISTURBED AREAS UTILIZING THE APPROPRIATE MATERIALS AND RATES SPECIFIED IN TIMBER SALE PROVISION C6.601.
4. WHEN BUILT ON GRADES SKEW WATERBARS TO FACILITATE DRAINAGE.
5. GRADE CHANGES OVER THE LENGTH OF THE WATERBAR SHALL BE SMOOTH WITH NO ABRUPT OR SHARP ANGLE BREAKS.



DRAIN DIP INSTALLATION

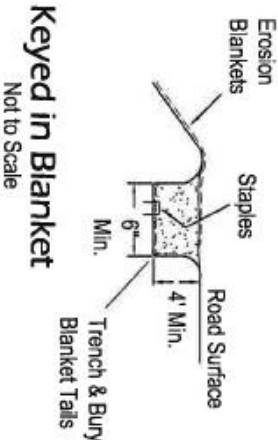
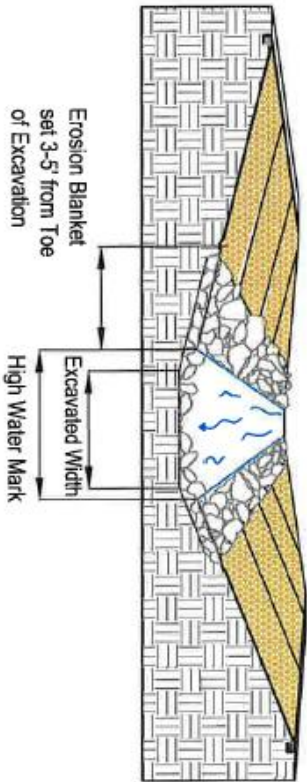
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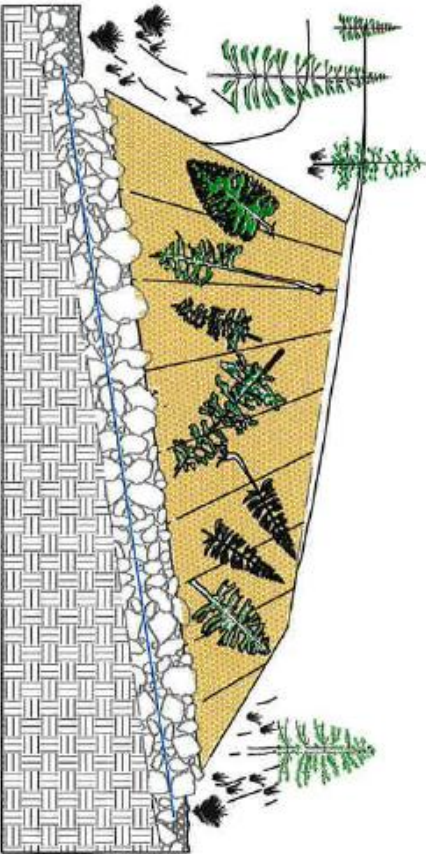
- D = 6 INCHES AT THE INSIDE SHOULDER.
D = 3% TO 4% (15 TO 20 INCHES) AT THE OUTSIDE SHOULDER.
RUBBER TIRE MOTOR GRADER FINISH REQUIRED.
1. CONSTRUCTED DRAIN DIPS SHALL NOT HAVE PROTRUSIONS OR DEPRESSIONS GREATER THAN 2 IN. FROM THE TYPICAL SECTION.
 2. SKEW TROUGH AND CREST OF THE DIP 10 DEGREES FROM PERPENDICULAR TO THE ROAD CENTERLINE.
 3. CROSS DRAIN SLOPE OF THE DIP SHALL BE 5%.
 4. CONSTRUCT 10 FT. VERTICAL CURVES AT ALL DIP TRANSITIONS.
 5. IF TOLD TO "INTERCEPT DITCH" CONSTRUCTION OF A DITCH BLOCK AT THE INLET OF THE DIP TO DIRECT WATER INTO THE DIP IS REQUIRED.
 6. CONSERVE RIPRAP FROM THE EXCAVATION OR SLASH FROM ROADWAY BRUSHING AND PLACE AT OUTFALL OF DRAIN DIP.

TIN MULE C5.102# AND C6.601#		
WATERBAR AND DRAIN DIP TYPICAL		

Section A - A
Not to Scale



**Stream Channel Restoration and
Culvert Removal Typical Cont.**

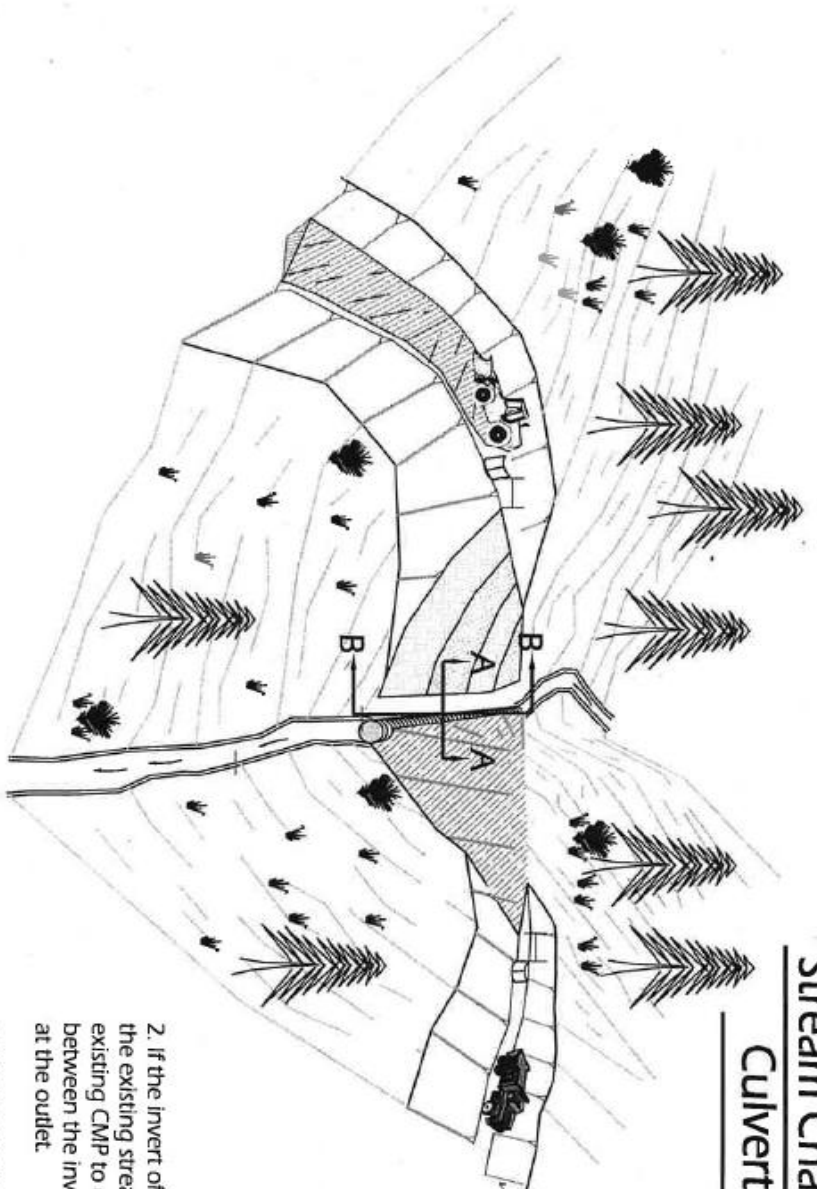


Section B - B
Not to Scale

TIN MULE C5.102#	Sheet
STREAM CHANNEL RESTORATION TYPICAL	4a

Stream Channel Restoration and Culvert Removal Typical

Not to Scale



Notes:

1. Place excavated material on either side of the pipe as shown above unless noted otherwise in the road log. Shape excavated material to blend into the existing cut slope and to avoid holding or trapping water. Block existing ditches and spread the excavated material to a depth of 2 feet on the road template so that it acts as a waterbar and diverts any future surface water and ditch flow across the road into a vegetative filter zone and not directly into the stream. Do not deposit any excavated material on the existing fill slopes or in the existing channel. Conserve rocks from the excavation and place along the toe of the slopes adjacent to the restored stream channel as shown on the Typical Cross Section Drawing. Place rock on the erosion blanket as much as possible, beginning at the outlet end. Woody debris may be placed on excavated slopes not to exceed 50% of ground cover.

2. If the invert of the existing culvert outlet is above the existing streambed, remove material below the existing CMP to create a straight-line gradient between the invert of the inlet and the streambed at the outlet.
3. Straw mats must be placed along streambed on all excavated slopes. Certified weed free straw shall be applied.
4. Keep piled fill material at a maximum slope of 4:1 and a minimum of three feet from road shoulder to accommodate foot traffic and horses.
5. Removal of Culvert: Culvert must be removed from project.

TIN MULE C5.102#	Sheet
STREAM CHANNEL RESTORATION TYPICAL	5

TEMP ROAD 21 – specification for construction

MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 895
0.043	2+25	Remove Rock Barrier and Install Temporary Closure
0.062	3+30	Blade out Existing Waterbar and clean ditch
0.099	5+25	Construct Drain Dip at Existing Water Bar-clean out ditch
0.104	5+50	Clean Existing 18" CMP if needed
0.137	7+25	Blade out Existing Waterbar and clean ditch
0.170	9+00	Temporary Road Right
0.174	9+20	Blade out Existing Waterbar and clean ditch
0.208	11+00	Construct Drain Dip at Existing Water Bar
0.246	13+00	Blade out Existing Waterbar and clean ditch
0.284	15+00	Blade out Existing Waterbar and clean ditch
0.322	17+00	Construct Drain Dip at Existing Water Bar
0.360	19+00	Blade out Existing Waterbar and clean ditch
0.393	20+75	Blade out Existing Waterbar and clean ditch
0.431	22+80	Construct Drain Dip at Existing Water Bar
0.434	22+95	Clean Existing 18" CMP if needed
0.469	24+80	Blade out Existing Waterbar and clean ditch
0.507	26+80	Construct Drain Dip at Existing Water Bar-clean out ditch
0.542	28+65	Blade out Existing Waterbar and clean ditch
0.602	31+80	Existing Drain Sag
0.607	32+10	Clean Existing 18" CMP if needed
0.640	33+80	Blade out Existing Waterbar and clean ditch
0.678	35+85	Construct Drain Dip at Existing Water Bar
0.716	37+85	Blade out Existing Waterbar and clean ditch
0.754	39+85	Construct Drain Dip at Existing Water Bar
0.790	41+70	Intersection with Historic Road Right
		Utilize historic road for 725 feet to access unit 21.

TEMP ROAD 21 –specifications for road closure

MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 895
0.043	2+25	Remove Rock Barrier and Install Temporary gate
0.062	3+30	Construct Waterbar
0.099	5+25	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.104	5+50	Clean Existing 18" CMP if needed
0.137	7+25	Construct Waterbar
0.170	9+00	Temporary Road Right
0.174	9+20	Construct Waterbar
0.208	11+00	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.246	13+00	Construct Waterbar
0.284	15+00	Construct Waterbar
0.322	17+00	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.360	19+00	Construct Waterbar
0.393	20+75	Construct Waterbar
0.431	22+80	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.434	22+95	Clean Existing 18" CMP if needed
0.469	24+80	Construct Waterbar
0.507	26+80	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.542	28+65	Construct Waterbar
0.602	31+80	Existing Drain Sag
0.607	32+10	Clean Existing 18" CMP if needed
0.640	33+80	Construct Waterbar
0.678	35+85	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.716	37+85	Construct Waterbar
0.754	39+85	Existing Drain Dip-Built under C5.102-Tin Mule T.S.-construct ditch block
0.790	41+70	Intersection with Historic Road Right
		Rehab and scarify historic road segment as specified in C6.633#

TEMP ROAD 8910 –specifications for construction

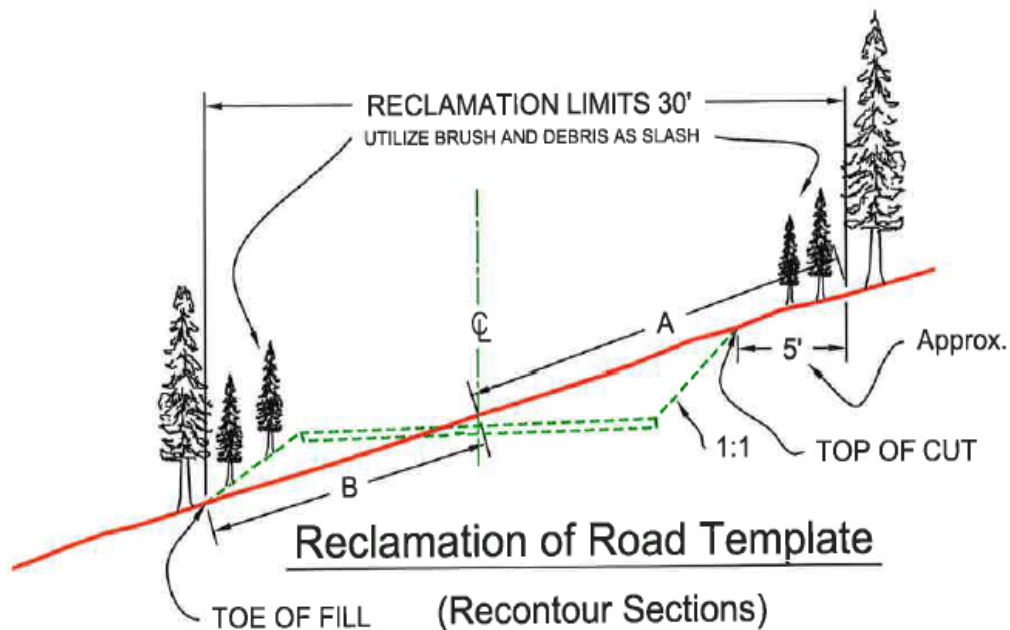
MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 2831B
0.008	0+40	Remove Berm
0.227	12+00	Blade out Existing Waterbar and clean ditch
0.260	13+75	Blade out Existing Waterbar and clean ditch
0.295	15+60	Existing 18" CMP
0.300	15+85	Blade out Existing Waterbar and clean ditch
0.300	15+85	JCT with New Temp Road Construction
		Begin New Temp Road Construction. Install dips/waterbars, culverts as designated by Forest Service Sale Administrator.
0.331	17+50	Grade Sag
0.350	18+50	Grade Crest
0.388	20+50	Existing 18" CMP
0.393	20+75	Grade Sag
0.412	21+75	End Work

TEMP ROAD 8910 – specifications for road closure

MILE POST	STATION	WORK DESCRIPTION
0.000	0+00	Begin Work at Junction with Rd 2831B
0.008	0+40	Construct Berm
0.227	12+00	Construct Waterbar
0.260	13+75	Construct Waterbar
0.295	15+60	Existing 18" CMP
0.300	15+85	Construct Waterbar
		Begin New Temp Road obliteration as specified in C6.632#.
0.331	17+50	Grade Sag
0.350	18+50	Grade Crest
0.388	20+50	Existing 18" CMP
0.393	20+75	Grade Sag
0.412	21+75	End Work

Closure Detail for New Temporary Roads

Road decommissioning shall include full recontouring; excavating and placing fill material back onto the road prism to return the ground to its natural contour, removing structures(culverts, cross drains, gates) and reshaping stream crossings and draws to their natural contours, placing woody debris on the disturbed area, and seeding disturbed ground. This work shall be performed on the entire road segment .



A = AREA ABOVE Existing road, Reclamation requires placement of excavated material to neat lines & graded from "Toe of Fill" to "Top of Cut." The material line shall closely approximate natural ground contours shaped to blend with the terrain.

B = AREA BELOW Existing road. Decompect and loosen the road surface to a 1 foot minimum depth, by ripping, plowing or scarifying. Pull all major embankments and use material to recontour area A. Strip the surface to conserve brush, slash, debris, and topsoil from the excavation area and return these materials after the Area B has been recontoured to natural slopes.

B = TURNPIKE. When template B is a through fill, rip and roughen or pit and mound the area including ditches to create a natural landscaped seedbed. Strip the surface to conserve brush, slash, debris, and topsoil from the excavation area and return these materials after the Area B has been recontoured to natural slopes.

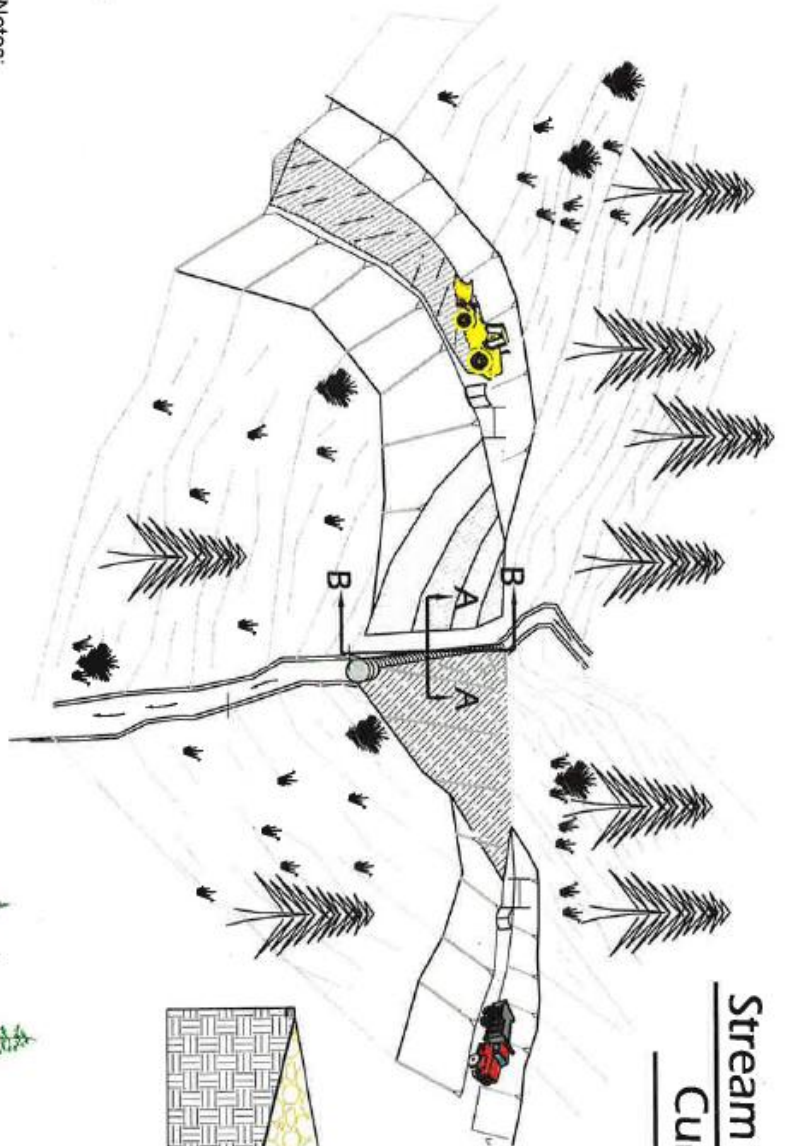
Apply seed and mulch to the recontoured areas and the disturbed ground on the reclaimed roadbed.

**TIN MULE TEMPOARY ROAD
DECOMMISSIONING**

TYPICAL FOR NEW TEMP ROAD CULVERT REMOVAL

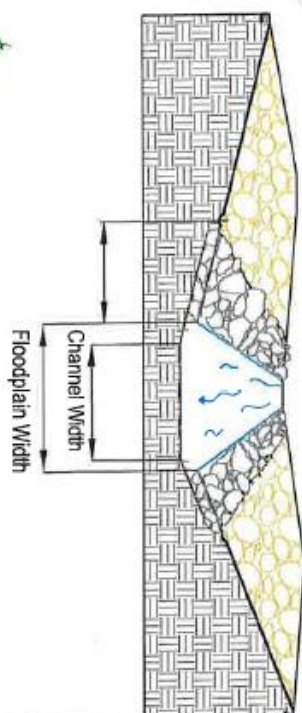
Stream Channel Restoration and Culvert Removal Typical

Not to Scale



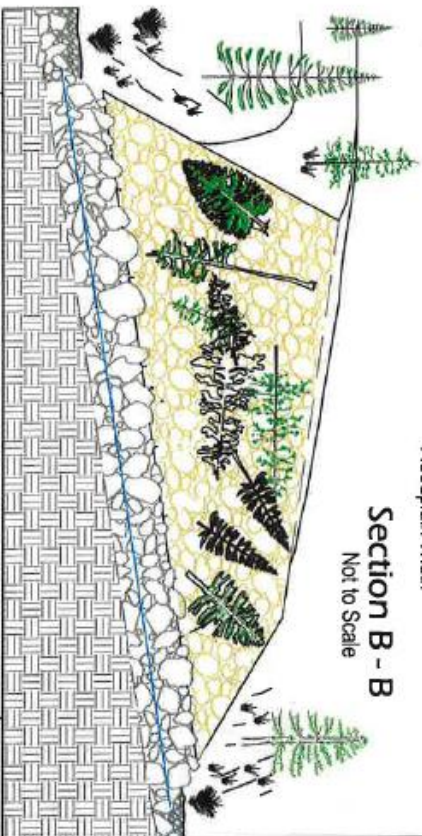
Section A - A

Not to Scale



Section B - B

Not to Scale

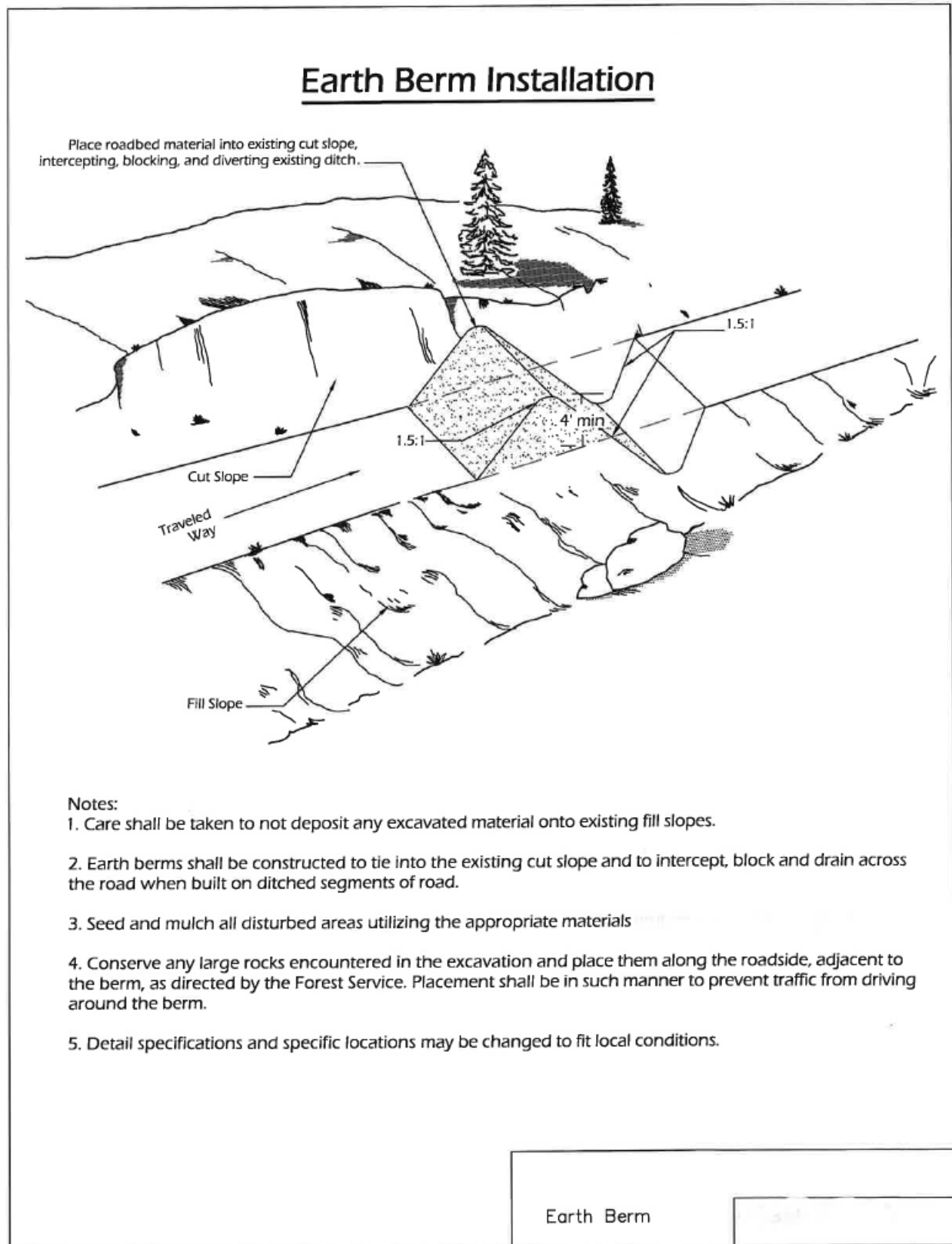


Notes:
Remove all fill material from the floodplain and restore original channel dimensions. Fully contour the adjacent roadway within the stream restoration area by placing fill material on the deep ripped roadbed. Do not deposit more material than existed naturally prior to road construction. Adjust stream channel restoration area limits so that all excavated material matches the existing stream channel.
Stream restoration areas may be adjusted to either side of the channel to accommodate overlapping sections where streams are close together.
If the bottom of the existing culvert outlet is above the existing streambed, remove material below the existing CMP to create a straight-line gradient between the bottom of the inlet and the streambed at the outlet.
Scatter available woody debris on recontoured stream slopes. Place larger wood and rock on the floodplain. Spread Certified weed free straw and seed on disturbed area. Remove and dispose of culvert from the jobsite.

TIN MULE C5.102# and C6.632#

STREAM CHANNEL RESTORATION TYPICAL

TYPICAL FOR EARTH BERM INSTALLATION



C5.12# – USE OF ROADS BY PURCHASER (6/99). Purchaser's use of existing roads identified on Sale Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

<u>Code</u>	<u>Use Limitations</u>
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by Forest Service to inform the public of use restrictions. Purchaser's use of roads coded R, A, or W shall be in accordance with the following restrictions:

Restricted Road List

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
895 & 38	West Side and East Side Hungry Horse Roads			R	All loads must comply with statutory limits. Log hauling will not occur during the Memorial day, 4 th of July, or Labor day holidays and their associated weekends
38S	South Woods	0.00	0.36	X	Hauling Prohibited

C5.13# – ROAD COMPLETION DATE. (4/04) Construction of Specified Roads shall be completed no later than **September 30, 2014**; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	
NA				

Completion date is binding on the party that constructs road, whether Purchaser or Forest Service. Contracting Officer shall modify the completion date in writing to conform to the approved Plan of Operations under B6.311 at the request of Purchaser.

When Purchaser elects Forest Service construction of Specified Roads shown in sale advertisement, Forest Service may adjust construction completion date when road construction is delayed or interrupted for causes that qualify for an adjustment of the completion date of Forest Service's road construction contract. When qualifying delays or interruptions of road construction occur, Forest Service shall evaluate such occurrences and document any findings. The current status of any adjustment shall be available to Purchaser on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Purchaser written notice of (a) number of qualifying days claimed, and (b) new construction completion

dates. After all road construction is complete, Forest Service shall grant Contract Term

Adjustment. Such adjustment shall be limited to road completion date delays that occurred during Normal Operating Season.

If Forest Service is responsible for road construction and the actual date of road completion is 1 year or more after the completion date stated above, Purchaser may request a rate redetermination under B3.3 for remaining volume. Such request must be made within 30 days of notification that road construction has been completed. Upon receipt of such request, Forest Service shall redetermine rates using standard methods in effect on the completion date of road construction. Rates to be established shall apply to all timber removed from Sale Area after the effective date of the rate redetermination.

Forest Service shall in no way be responsible for any delay or damage caused by road contractor in performing the road construction, except such delay as may be the fault or negligence of Forest Service.

When Purchaser constructs Specified Roads and requests Contract Term Adjustment, completion dates shall be adjusted by number of days that qualify for such adjustment, provided such qualifying days occur before specified construction completion date. When Purchaser desires to construct an alternate facility under B5.26, Forest Service and Purchaser shall agree, in writing, on a construction completion date for alternate facility. Contract Term Adjustment as noted above will apply. Completion date shall be adjusted where a Design Change or physical changes necessitate a modification of Specified Road construction work that increases the scope or magnitude of the required work.

If Purchaser fails to complete construction of any or all Specified Roads by applicable completion date, as adjusted, Contract Term Extension shall not be granted.

As used in this Subsection, construction of a road is completed when:

(a) Purchaser constructs Specified Roads and Forest Service furnishes Purchaser with written notice of acceptance under B6.36 or

(b) Forest Service constructs road and furnishes Purchaser with written notice authorizing use of road.

Notwithstanding B5.1, Purchaser shall not use a road that Purchaser has elected for Forest Service to construct, until construction is completed and Forest Service furnishes Purchaser with written notice authorizing use of road.

C5.222# - STOCKPILED MATERIAL SOURCES (1/02). Material is appraised from National Forest stockpiles designated on the Sale Area Map. Payment to the Forest Service for such material shall be made prior to removal of any material and at the following rates:

Source/Stockpile	Type of Material	Unit of Measure	Unit Price	Estimated Quantity	Total Price
Airport Pit	Crushed Aggregate	CY	N/A	400	N/A
Airport Pit	Class III rip rap	CY	N/A	24	N/A

When agreed to in writing, Purchaser may elect to crush material at the above sources in lieu of purchasing stockpiled material; however, there will be no adjustment in cost allowance.

When agreed to in writing, Purchaser may elect to obtain material from other sources, with no adjustment in cost allowances, unless such adjustment results in a savings to the Forest Service. Such adjustment will be in accordance with B5.253.

Forest Service assumes responsibility for the quality and quantity of material in the sources designated above. Should a designated source, due to causes beyond the control of the Purchaser, contain insufficient acceptable material, the Forest Service will provide another source with adjustment in accordance with B5.253.

C5.31# – ROAD MAINTENANCE REQUIREMENTS (7/01). Purchaser shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

Contract Road Maintenance Requirements Summary

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
38	1.65	1.68	0.03										
38	1.68	2.79	1.11										
38	2.79	21.65	18.86										
38	21.65	44.26	22.61										
38	44.26	45.90	1.64										
38	45.90	48.04	2.14										
38	48.04	49.50	1.46										
38	49.50	51.20	1.70										
38	51.20	51.49	0.29										
38	51.49	51.60	0.11										
38	51.60	51.75	0.15										
38	51.75	51.83	0.08										
895	4.39	15.17	10.78										
895	15.17	30.39	15.22										
895	30.39	47.86	17.47										
895	47.86	51.53	3.67										
895	51.53	52.16	0.63										
895	52.16	53.30	1.14										
895	53.30	53.53	0.23										
895	53.53	55.31	1.78										
895	55.90	56.10	0.20										

2826	0.00	0.15	0.15										
2826	0.15	0.45	0.30										
2826	0.45	1.35	0.90										
2826	1.35	3.40	2.05										
2831	0.00	4.12	4.12										
2831	4.12	5.48	1.36										
2831B	0.00	2.02	2.02										
2831B	2.02	2.86	0.84										
2831B	2.86	3.79	0.93										
11505	0.00	0.30	0.30										
5384	0.00	0.20	0.20										
10191	0.00	0.06	0.06										

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
38	1.65	1.68	0.03				D	D	D			D	
38	1.68	2.79	1.11	P	P		D	D	D			D	
38	2.79	21.65	18.86				D	D	D	D	D	D	
38	21.65	44.26	22.61				D	D	D			D	
38	44.26	45.90	1.64				D	D	D		D	D	
38	45.90	48.04	2.14		P		D	D	D			D	
38	48.04	49.50	1.46				D	D	D	D	D	D	
38	49.50	51.20	1.70				D	D	D		D	D	
38	51.20	51.49	0.29	P			D	D	D			D	
38	51.49	51.60	0.11	P	P		D	D	D		D	D	
38	51.60	51.75	0.15	P	P		D	D	D			D	
38	51.75	51.83	0.08	P			D	D	D			D	
895	4.39	15.17	10.78				D	D	D	D	D	D	
895	15.17	30.39	15.22	P			D	D	D		D	D	
895	30.39	47.86	17.47	P			D	D	D	D	D	D	
895	47.86	51.53	3.67	P	P		D	D	D			D	
895	51.53	52.16	0.63	P	P		D	D	D	D		D	
895	52.16	53.30	1.14	P			D	D	D			D	
895	53.30	53.53	0.23	P	P		D	D	D	D		D	
895	53.53	55.31	1.78	P	P	P	D	D	D			D	
895	55.90	56.10	0.20	P	P		D	D	D			D	
2826	0.00	0.15	0.15	P	P	P	D	D	D			D	
2826	0.15	0.45	0.30	P	P	P	D	D	D			D	
2826	0.45	1.35	0.90	P	P	P	D	D	D			D	
2826	1.35	3.40	2.05	P	P	P	D	D	D	D		D	
2831	0.00	4.12	4.12	P	P	P	D	D	D		D	D	
2831	4.12	5.48	1.36	P		P	D					D	
2831B	0.00	2.02	2.02	P		P	D					D	
2831B	2.02	2.86	0.84	P		P	D				D	D	
2831B	2.86	3.79	0.93	P		P	D					D	
11505	0.00	0.30	0.30	P	P	P	D	D	D			D	
5384	0.00	0.20	0.20	P	P	P	D	D	D			D	
10191	0.00	0.06	0.06				D	D	D			D	

P = Purchaser Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-101	T-103	T-301	T-310	T-506	T-507	T-618	T-619	T-710	
38	1.65	1.68	0.03									D	
38	1.68	2.79	1.11									D	
38	2.79	21.65	18.86									D	
38	21.65	44.26	22.61									D	
38	44.26	45.90	1.64									D	
38	45.90	48.04	2.14									D	
38	48.04	49.50	1.46									D	
38	49.50	51.20	1.70									D	
38	51.20	51.49	0.29	P								D	
38	51.49	51.60	0.11	P								D	
38	51.60	51.75	0.15	P								D	
38	51.75	51.83	0.08	P								D	
895	4.39	15.17	10.78									D	
895	15.17	30.39	15.22	P								D	
895	30.39	47.86	17.47	P								D	
895	47.86	51.53	3.67	P								D	
895	51.53	52.16	0.63	P								D	
895	52.16	53.30	1.14	P								D	
895	53.30	53.53	0.23	P								D	
895	53.53	55.31	1.78	P		P						D	
895	55.90	56.10	0.20	P								D	
2826	0.00	0.15	0.15	P		P						D	
2826	0.15	0.45	0.30	P		P						D	
2826	0.45	1.35	0.90	P		P						D	
2826	1.35	3.40	2.05	P		P						D	
2831	0.00	4.12	4.12	P		P						D	
2831	4.12	5.48	1.36	P		P						D	
2831B	0.00	2.02	2.02	P		P						D	
2831B	2.02	2.86	0.84	P		P						D	
2831B	2.86	3.79	0.93	P		P						D	
11505	0.00	0.30	0.30	P		P						D	
5384	0.00	0.20	0.20	P		P						D	
10191	0.00	0.06	0.06									D	

P = Purchaser Performance Item D = Deposit to Forest Service D3 = Deposit to Third Party

SPECIFICATION T-101 SURFACE BLADING

DESCRIPTION

1.1 Surface blading is keeping the native or aggregate surfaced road in a condition to facilitate traffic, minimize additional future maintenance, reduce erosion, and provide proper drainage. It includes maintaining the crown, inslope or outslope of the traveled way and shoulders, drainage dips, leadoff ditches, berms, turnouts, removal of minor slides and slumps, and other irregularities that prevent normal runoff from the road surface.

REQUIREMENTS

3.1 Surface blading shall be performed as often as necessary and to the standards required to facilitate traffic and proper drainage.

3.2 The blading shall be performed in such a manner as to preserve the existing cross section and to conserve surface materials. On gravel surfaced roads, the base must not be disturbed and no surface material may be bladed into the ditch or over the road shoulders. Blading of native surface roads shall be performed so no base material under four (4) inches in the greatest dimension is lost. All ruts, holes, etc., shall be removed by scarifying and/or cutting to the bottom of any surface irregularities. Oversize material brought to the surface in the scarification process shall be removed from the roadway. Surface material which has been displaced to the shoulders, turnouts, outside of curves, etc., shall be brought back so as to leave a uniform depth on the traveled way at completion of blading. Water shall be applied during blading if sufficient moisture is not present to prevent segregation.

3.3 Roadside cutslopes or berms shall not be undercut.

3.4 At intersections, the roadbeds of sideroads shall be graded for a reasonable distance to assure proper blending of the two riding surfaces.

3.5 Drainage dips and leadoff ditches shall be cleaned and continually maintained to conform reasonably to their original constructed lines, grade, and cross section.

3.6 Berms shall be repaired promptly by placing selected material as needed to restore the berm to its original condition.

3.7 Surface blading of native surface roads also includes ditch cleaning, which shall be done in accordance with T-301, Ditch Cleaning.

3.8 All blading operations shall be properly signed in accordance with B(T)6.33# and all applicable State Laws.

SPECIFICATION T-103 DUST ABATEMENT

DESCRIPTION

1.1 Dust abatement consists of road surface preparation and application of materials.

MATERIALS

2.1 Water, bituminous products, lignin sulfonates, chloride products, and other materials may be used for dust abatement. Materials other than water will require approval of the Forest Service and shall meet specifications furnished by the Forest Service.

REQUIREMENTS

3.1 Dust abatement materials shall be applied to the road surface as necessary to control surface loss and provide that vehicles are always intervisible within their stopping sight distance. The average user speed on the road shall be used to determine stopping sight distance. Preparation shall be in accordance with Specification T-101, Surface Blading.

3.2 The rate of application shall be such that the selected material will not run off the surface and cause pollution or unnecessary waste.

3.3 When water is the selected material, it shall be applied as often as necessary to abate dust from all Purchaser operations.

a. Dust abatement shall be maintained as needed throughout the duration of operations.

SPECIFICATION T-301 DITCH CLEANING

DESCRIPTION

1.1 Ditch cleaning is removing and disposing of all slough material from roadside ditches to provide an unobstructed waterway conforming reasonably to previous line, grade, and cross section.

REQUIREMENTS

3.1 Slough Material.

A. Native Surfaced Roads. Slough material from ditch cleaning, if suitable, may be placed and blended into the existing road surface or shoulders or placed in a designed berm during surface blading.

B. Aggregate Surface Roads. Slough material from ditch cleaning shall not be mixed with aggregate surfacing or left on the road surface unless otherwise agreed. Material shall be disposed of in an agreed manner at designated locations.

C. Asphalt Surfaced Roads. Equipment, methods, and timing shall be agreed to before start of ditch cleaning operations so as to protect the asphalt pavement. Material shall be disposed of in an agreed manner at designated locations.

SPECIFICATION T-310 MINOR DRAINAGE STRUCTURES

DESCRIPTION

1.1 Minor drainage structures are single passages with maximum waterway opening equivalent to a 78-inch round pipe (87- by 63-inch arch) or multiple passages with maximum, single waterway opening equivalent to a 60-inch round pipe (66- by 51-inch arch). They include overside drains. Maintenance is work performed on inlets, outlets, related channels, existing riprap, trash racks, and drop inlets.

MATERIALS

2.1 All materials used in the maintenance of minor drainage structures shall conform by type and specification to the material in the structure being maintained.

REQUIREMENTS

3.1 All minor drainage structures are to be maintained in accordance with these specifications in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 Clear inlet and outlet channels, inlet trash racks, and drop inlets of loose material that could cause plugging or prevent the free flow of water. Debris shall be disposed of in agreed manner at designated locations.

3.3 If outlet riprap was originally placed to dissipate water energy, it shall be maintained in good condition including the replacement of riprap if necessary.

4.1 Make whatever minor repairs are necessary to ensure the proper functioning of the head walls, aprons, inlet assemblies, overside drains, riprap, trash racks, and other facilities related to the drainage structure.

SPECIFICATION T-506 CLEARING ROADWAY VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth including trees from the road surface that reduces the operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

REQUIREMENTS

3.1 Vegetative matter on the road surface which reduces sight distance, impedes vehicular travel, or interferes with road maintenance operations such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in

appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion need not be removed if the road surface can be adequately maintained without doing so. Vegetation and nonmerchantable timber removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

SPECIFICATION T-507 CUTTING ROADSIDE VEGETATION

DESCRIPTION

1.1 This work consists of cutting and disposing of all vegetative growth, including trees from within the roadway that reduce sight distance and operational capability of the road. Vegetation removal is required if the growth of the vegetation during the contract period causes unacceptable reduction of sight distance and operation capability.

REQUIREMENTS

3.1 Vegetative matter within the roadway which reduces sight distance, impedes vehicular travel, or interferes with road maintenance operations such as surface blading and ditch and culvert cleaning shall be removed. Downed timber meeting utilization standards shall be cut in appropriate lengths and decked along the roadside in locations where the traveled way or sight distance will not be impaired.

3.2 Low shrubs and brush which do not restrict sight distance, do not impede road maintenance, and reduce erosion shall not be removed. Vegetation removed shall be disposed of by scattering, chipping, hauling to designated disposal areas, or as otherwise agreed upon.

SPECIFICATION T-618 MAJOR DRAINAGE STRUCTURES

DESCRIPTION

1.1 Major drainage structures are culverts, bridges, and other structures with a minimum waterway opening equivalent to an 84-inch round pipe (95- by 67-inch arch) or multiple passages where the smallest single waterway opening is 66 inches (73- by 55-inch arch). All low water structures are major drainage structures.

Maintenance of these structures includes cleaning inlets, outlets, and related channels, trash racks, delineators, object markers, rails, timber or asphalt running surfaces, bridge inspections, and other work incidental to maintenance of the structure.

MATERIALS

2.1 All materials used in the maintenance of large drainage structures shall conform by type and specification to the material in the structure being maintained.

REQUIREMENTS

3.1 All major drainage structures and related channels except stream channels shall be maintained as early as possible in the spring following any significant runoff and prior to the beginning of winter storms.

3.2 The items listed below shall be accomplished within the scope of bridge maintenance and where applicable to the maintenance of other large drainage structures.

A. Ditch Cleaning, T-301, and Surface Blading, T-101, shall be performed to direct drainage away from the approaches to the structure.

B. Trash racks shall be cleaned, and any logs or drift lodged against piers and abutments shall be removed without causing damage to the structure. Vegetative debris removed shall be treated as agreed.

C. Debris shall be removed from the bridge deck, and deck drains shall be opened.

a. Loose bolts and nuts shall be tightened.

SPECIFICATION T-619 MISCELLANEOUS STRUCTURES

DESCRIPTION

1.1 Maintenance of miscellaneous structures include the maintenance of retaining walls, guard rails, cattleguards, fences, gates, and any other similar structures that have been previously installed to insure the safe and efficient operation of the road.

MATERIALS

2.1 Any materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the material in the structure being maintained.

REQUIREMENTS

3.1 Guard Rails. Anchors shall be tightened.

3.2 Cattleguards. Tie-in fences shall be sound and secured to the wings. Loose rails shall be welded or bolted back in place. Material deposited into the cattleguard well during operations shall be removed. Drainage into and out of cattleguards shall be maintained.

3.3 Fences. Wire fences shall be tightened if loose. Broken strands of wire or wood railings shall be replaced.

3.4 Gates. Gates shall be properly signed, kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly. Hinges shall be oiled.

SPECIFICATION T-710 TRAFFIC SERVICES

DESCRIPTION

1.1 Traffic service maintenance includes the maintenance of traffic-related regulatory, warning, and directional signs as well as devices such as roadside delineators or markers. It also includes restriping paved surfaces.

MATERIALS

2.1 All sign faces shall be retroreflective sheeting. Sign posts shall be treated. Materials for delineators and markers shall be similar to those in the devices being replaced unless in conflict with the Manual on Uniform Traffic Control Devices. Pavement striping shall be retroreflective and meet the material requirements of specification 634 in "Forest Service Standard Specifications for Construction of Roads and Bridges."

REQUIREMENTS

3.1 A minimum area six (6) feet in diameter around any traffic sign or device shall be kept free of weeds, brush, and limbs. Greater dimensions may be necessary depending on viewing direction.

3.2 Defaced signs shall be repaired using materials in accordance with the Manual on Uniform Traffic Control Devices.

3.3 All traffic control signs and devices that are replaced shall be installed in accordance with the Manual on Uniform Traffic Control Devices.

3.4 All pavement striping shall conform to attached specifications. Pavement striping shall be required when the existing striping is not readily visible both by day and night.

C5.314# - DUST ABATEMENT TREATMENT (02/02). When conditions are such that dusting would result in hazardous driving conditions or there would be an appreciable loss of road surface binder material, Purchaser shall control such dusting by application of a dust abatement treatment to the surface of roadways and other traveled areas according to referenced or attached specifications or other specifications agreed to in writing. This treatment will provide a surface which can be bladed and retreated when necessary. It is not intended to produce a permanent waterproof wearing surface or dust control for more than one year, even though some residual value may be retained. It is intended to be compatible with the physical characteristics of the road surface, such as parent material, percent fines, relative humidity, or possibly some residual dust abatement material.

Dust abatement treatment shall apply only to the roads listed below. The provisions of Specification T-103 of C5.31# shall apply to all other roads when required under C5.31#. T-103 of C5.31# may be used in lieu of C5.314# to perform dust abatement during hauling of timber cut within the clearing limits of roads constructed under this timber sale unless otherwise agreed.

Dust Abatement Specifications

Road Number	Road Name	Termini	Abatement Treatment	References or Attached
38	East Side Reservoir	1.68-2.79 51.49-51.75	Mg Cl	Attached
895	West Side Reservoir	55.90-56.10	Mg Cl	Attached
2826	Meadow Creek	0.15-0.45	Mg Cl	Attached

C5.314# Attachment (02/02).

SURFACE PREPARATION

Prior to application of chlorides, the roadway shall be prepared by T-101 Surface Blading, and watered as necessary to achieve adequate penetration of the chlorides without runoff. If flakes are used, water will be added after placing the flakes to facilitate penetration of the chlorides into the roadway.

APPLICATION

(a) The Distribution Equipment shall be so designed, equipped, maintained, and operated such that the dust abatement material may be applied uniformly on variable widths of surface.

For liquid products the following requirements shall apply: (1) The spray pattern from each nozzle on the spray bar shall be uniform across the spray bar; (2) Distribution equipment shall include accurate volume measuring devices or a calibrated tank, a thermometer for measuring temperatures of tank contents, and a hose and nozzle attachment for applying material to areas inaccessible to the spray bar.

Calcium Chloride Flake shall be spread with equipment that evenly distributes the material across the required road width. The relative weight of material placed shall be easily determined during application.

B. Application Rate. Application rates will be as follows:

MgCl Brine.....0.30 gallons/square yard
CaCl Brine.....0.22 gallons/square yard
CaCl Flakes.....1.17 pounds/square yard

The Forest Service may field test Chloride brines prior to application to make sure that the products meet the minimum concentrations specified. Acceptance of the material will be based on the concentration shown on the manufacturer's certificate, or on results of laboratory quality assurance tests done by the Forest Service on samples taken from distribution or hauling vehicles.

Uniform distribution shall be obtained at all points. For liquid products the spray pattern from each nozzle on the spray bar shall be uniform across the spray bar. For flake products, the coverage will be uniform on the road surface. Overlapping or skipping between spread sections shall be corrected. Accidental spillage and areas with excess dust palliative that are hazardous to

traffic shall be covered with additional road surfacing material. The surface of adjacent structures and trees shall be protected from spattering or marring. Dust palliative material shall be discharged only in approved areas, and shall not be allowed to flow into ditches or stream courses. All products may be placed in one application.

All spreading and hauling equipment shall comply with applicable State and Federal requirements including GVW limitations.

(c) Certification with Shipment. When each load of chloride material is delivered, the Purchaser shall furnish one copy of the Bill of Lading, and a fully executed Certificate of Compliance indicating, as a minimum, the following information: Date, Material composition by weight of MgCL and CaCl, Net weight of shipment, Net gallons at 60 degrees F, Specific Gravity of brine at 60 degrees F. A separate Certificate of Compliance will not be required if the standard Bill of Lading contains the essential information required by the certificate.

(d) Sampling. Sampling of chloride material may be required to validate certifications furnished by the Purchaser. When sampling is directed by the Forest Service, the actual samples will be taken by the Purchaser in the presence of the Forest Service representative. All delivery and distribution equipment shall be constructed to permit sampling in conformance with AASHTO T-40 test procedure. Samples shall be obtained from hauling units just prior to application of the material.

C5.316 - SNOW REMOVAL. (4/13) Snow removal shall be done in a manner to preserve and protect the roads, to insure safe and efficient transportation and to prevent unacceptable damage to roads, streams, and adjacent lands.

A. Description. Snow removal work by Purchaser shall include:

1. Removal of snow from entire width of road surface including turnouts.
2. Removal of snow slides, minor earth slides, fallen timber and boulders that obstruct normal road surface width including turnouts.
3. Maintenance of drainage so that the drainage system will function efficiently and prevent erosion damage.

B. Performance. Snow removal shall be kept current and performed as often as necessary to insure safe and efficient transportation. Work shall be done in accordance with the following minimum standards of performance.

1. All debris, except snow and ice, that is removed from the road surface and ditches shall be deposited away from stream channels at agreed locations.
2. During snow removal operations, banks shall not be undercut nor shall gravel or other surfacing material be bladed off the roadway surface.
3. Ditches and culverts shall be kept functional during and following road use.
4. Snow berms shall not be left on the running surface of the road. Berms left on the shoulder of road shall be removed and/or drainage holes shall be opened and maintained in

them. Drainage holes shall be spaced as needed to obtain satisfactory surface drainage without discharge on erodible fills.

5. Dozers or skidders shall not be used to plow snow on system roads without written approval of Forest Service. If approved, dozers and skidders must be equipped with shoes or runners to keep the plow blade a minimum of two inches above the road surface.

6. Snow removal must be done in such a way as to protect surface water drainage structures and the road surface. Any damage from, or as a result of, Purchaser's snow removal work shall be restored in a timely manner at Purchaser's expense.

C5.32# – ROAD MAINTENANCE DEPOSIT SCHEDULE (7/01). Other provisions herein notwithstanding, when Forest Service requests payment in lieu of Purchaser's performance of road maintenance, Purchaser shall make Required Deposits (16 USC 537) for current and/or deferred road maintenance. Such deposits are based on the estimated volume and distance hauled and Purchaser's commensurate use of each road listed in the Road Maintenance Plan in C5.31#.

Purchaser and Forest Service may agree in writing on adjustment of such rates. If purchaser uses roads under jurisdiction of Forest Service other than those listed in the Road Maintenance Plan, Forest Service shall establish rates commensurate with Purchaser's use of such roads.

The Required Deposits for Forest Service work in lieu of Purchaser performance and for deferred maintenance is: \$1.67 per Ton.

Purchaser shall make deposits for road maintenance directly to N/A for roads subject to the terms of a Road Maintenance Agreement that is available for inspection at the Forest Supervisor's office. Such deposits shall be at the rate of \$N/A per N/A.

C5.41# - CLOSURE TO USE BY OTHERS (3/07).

A. Closure of Roads During Period of Contract. Unless otherwise agreed in writing between Purchaser and Forest Service, Purchaser shall within 15 days of receipt of notice from Forest Service, install closure devices listed below and close them on roads designated "To Be Closed" on Sale Area Map and listed below to effectively block access to vehicle traffic except that constituting official use. Installation of closure devices shall follow closure details attached hereto and made a part hereof.

Official vehicle traffic shall constitute that use by Purchaser and his employees when engaged in timber sale activities. It shall also include administrative traffic by Forest Service, and other landowners for the administration of their lands. Purchaser shall close road as directed by Forest Service at the completion of daily activities or maintain closure after passage of each vehicle. Forest Service will monitor and administer closure activities.

CLOSURE DEVICES					
Road Number	Location	Furnished By	Closure Method	Closure Device Installed By	In Place
2831	MP 4.11	FS	GATE	N/A	YES
2831B	MP 2.24	FS	BERM	N/A	YES
38D	MP 0.12	FS	GATE	N/A	YES
Temporary Road 8910	MP 0.01	FS	BERM	N/A	YES
Temporary Road 1314	MP 0.03	FS	BERM	N/A	YES
Temporary Road 21	MP 0.05	FS	ROCK BARRIER	N/A	YES
2849	MP 0.02	FS	ROCK BARRIER	N/A	YES
Temporary Road 2526	MP 0.01	FS	BERM	N/A	YES
Temporary Roads (Existing historic)		FS	BERM	N/A	YES

During the life of this contract, Purchaser shall install temporary barricades at locations designated "Temporary activity Barricade" on Sale Area Map and shown below. Temporary barricades shall be installed so that they may be readily opened by Purchaser or Forest Service for access to Sale Area in case of fire or other emergency. Official vehicle traffic shall also include administrative traffic by Forest Service and other landowners for the administration of their lands. Purchaser shall provide and post approved signs as authorized by Forest Service. Installation of Temporary Activity Barricades shall follow closure details attached hereto and made a part hereof.

During the period January 1 to December 31 when Purchaser's Operations are in areas otherwise closed to motorized vehicles, Purchaser shall not be permitted to hunt, transport hunters, discharge firearms or transport big game animals with vehicles within the closed areas.

TEMPORARY ACTIVITY BARRICADES

Road Number	Location	Closure Method
Temporary Road 1314	Junction with FSR 895	Sign. Install gate or berm if road is to be used for multiple seasons
Temporary Road 21	Junction with FSR 895	Sign. Install gate or berm if road is to be used for multiple seasons
2849	Junction with FSR 38	Sign. Install gate or berm if road is to be used for multiple seasons

Temporary Roads accessed from open roads	Junction with open road	Sign. Install gate or berm if road is to be used for multiple seasons.
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B. Closure of Roads at End of Purchaser's Use. Unless otherwise agreed in writing between Purchaser and Forest Service, upon completion of use, Purchaser shall effectively close to public use the following roads designated "To Be Closed" on Sale Area Map and listed below. Existing locking closure devices shall be closed and locked as directed by Forest Service. As an element of final road maintenance and environmental or resource protection, the designated closure shall be accomplished by using the methods required for each road as described below:

Closure Location(s)				
Road Number	Location	Closure Method	Furnished By	In Place
2831	MP 4.11	GATE	FS	YES
2831B	MP 3.37	BERM	Purchaser	NO
38D	MP 0.12	GATE	FS	YES
Temporary Road 8910	MP 0.01	BERM	Purchaser	NO
Temporary Road 1314	MP 0.03	BERM	Purchaser	NO
Temporary Road 21	MP 0.05	ROCK BARRIER	Purchaser	NO
2849	MP 0.02	ROCK BARRIER	Purchaser	NO
Temporary Road 2526	MP 0.01	BERM	Purchaser	NO
Temporary Roads (Existing historic)		BERM	Purchaser	NO

C6.10 - PREWORK CONFERENCE (10/04). Annually, prior to commencement of work, a prework conference will be held to discuss contract terms and work performance requirements. Also at this meeting such things as responsibility under OSHA, and procedures for how undesignated timber that may have to be added to the contract (including danger trees) shall be discussed and documented.

The Purchaser, or designated representative, will arrange for the meeting with the Contracting Officer.

C6.23 - PROTECTION OF LAND SURVEY MONUMENTS (10/04). Forest Service shall appropriately designate on the ground all known survey monuments including but not limited to horizontal control stations (Triangulation Stations), vertical control stations (Bench Marks), property corner monuments, and all Public Land Survey System monuments. This shall include reference monuments, corner accessories such as bearing trees, line trees and line posts. Identifying signs shall be posted by Forest Service on two sides of each known bearing tree and each line post shall be posted with a metal sign or decal. Line trees may be cut if designated under B2.3.

In authorized clearings such as Clearcutting Units and road construction clearings, and in other instances where damage to survey monuments, corners, corner accessories and survey of property line markers is unavoidable, Forest Service shall arrange protective or perpetuative action which does not cause unnecessary delay to Purchaser.

Purchaser shall protect all known survey monuments, witness corners, reference monuments, bearing trees and line markers against avoidable destruction, obliteration or damage during Purchaser's Operations. Additional monuments or objects discovered on the area shall be promptly reported to the other party and shall also be protected. If any known monuments, corners, corner accessories, and survey or property line markers are destroyed, obliterated or damaged during Purchaser's Operations, Purchaser shall employ a registered professional land surveyor to reestablish or restore at the same location the monuments, corners, corner accessories or line markers. Such surveyors shall use procedures and monumentation that accords with the Bureau of Land Management Manual of Instructions for the Survey of the Public Lands of the United States for General Land Office surveys and any applicable State statutes concerned with land surveys. Purchaser's agent shall record such surveys in accordance with state survey statutes.

C6.24# – SITE SPECIFIC SPECIAL PROTECTION MEASURES (4/04). Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures:

Wildlife and Botanical Protection Measures:

Purchaser shall comply with the Northern Continental Divide Grizzly Bear Food Storage and Sanitation Order.

Purchaser shall notify any sightings or sign of grizzly bear, wolf, and lynx use in the Sale Area.

Cave Resource Protection Measures:

C6.316# - LIMITED OPERATING PERIOD (5/05). Except when agreed otherwise in writing, Purchaser's operations shall be limited as follows:

No motorized or mechanical operations of any kind shall be permitted from April 1 to June 30 in the Sale Area to protect grizzly bears during spring use period.

Exceptions to this are:

-Road reconstruction and maintenance activities on open roads.

-Units 16 and 22 must be harvested in June of only one operating season pursuant to requirements of C6.4#. Only units 16 and 22 are subject to the second period under A16 : Normal Operating Season.

-Mechanical operations in units 54, 55, 56, 57, 58, 59, 59A, 60, 61, 62 are restricted only between April 1 and May 31.

Units 26 and 27 harvest activities cannot begin prior to August 15 to protect a known goshawk nesting location.

Stream channel work associated with culvert upsizing will occur after July 15 to minimize impact on fish spawning.

LOGGING AND MAINTENANCE OPERATIONS SIGNING STANDARDS

All signs must be manufactured & installed as specified in the FHWA "Manual on Uniform Traffic Control Devices" (MUTCD) & FS publication "Standards for Forest Service Signs & Posters"(EM 7100-15).

SIGN STANDARDS

SHAPE & COLOR: Generally, signs for logging and maintenance operations are either diamond-shaped or rectangular. All signs are *reflective orange background with black legend and border* unless shown otherwise. Handpainted, homemade signs are not legal. Fluorescent paint is not reflectorized.

SUBSTRATE: Sign substrate material may be High Density Overlay (HDO) Plywood, Aluminum, Fiberglass Reinforced Plastic, Corrugated Plastic or Roll-up Fabrics.

SIGN SIZE: Sign size is a factor of speed and MUTCD & FS standards. Where conditions of speed, volume, or special hazard require greater visibility or emphasis, larger signs should be used. Minimum sizes for the most common signs can be found in Figure 4. Refer to the EM-7100-15 for additional sign sizes.

LEGEND: All lettering shall be Series "C" alphabet, conforming to Standard Alphabets for Highway Signs. Letter size is also a function of speed - use letter size and word messages as specified in MUTCD and EM-7100-15.

SIGN PLACEMENT

Signs are to be installed in locations as agreed to in the traffic control plan. All signs are to be removed, covered, or folded when operations are not in progress or the sign message is not applicable. Signs should generally be located on the right-hand side of the roadway. When special emphasis is needed, signs may be placed on both the left and right sides of the road. Sign message shall be clearly visible to road users, mounted on posts or portable sign stands.

LATERAL CLEARANCE

From the edge of the road - 2 foot minimum, where slope limits to less than 6 feet. 6-12 foot preferred.

HEIGHT

Minimum of 7 feet, measured from the bottom of the sign to the near edge of the travelway. The height to the bottom of a supplemental sign mounted below the primary sign will be 6 feet.

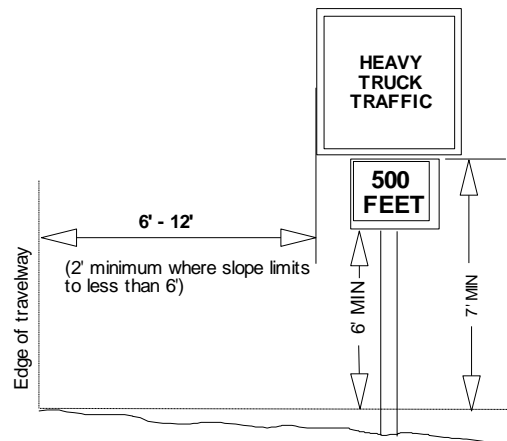


Figure 1: Sign Placement

Dimensions

PLACEMENT DISTANCE

Signs must be located 100-500 feet prior to the activity, (both ends if a through road) and maintained at that distance. This distance is based on speed. Refer to Figure 2, Table II-1, MUTCD, a portion of which is reproduced here, to determine correct placement distance.

Posted or 85 percentile speed MPH	Deceleration to listed advisory speed MPH				
	10	20	30	40	50
20	NA				
25	100				
30	150	100			
35	200	175			
40	275	250	175		
45	350	300	250		
50	425	400	325	225	
55	500	475	400	300	
60	575	550	500	400	300
65	650	625	575	500	375

Figure 2: A Portion of MUTCD TABLE II-1

SIGN SUPPORTS

POSTS: Signs are to be mounted on separate posts. Supplemental signs such as Speed Advisory plates are to be mounted on the same post as the primary sign. ***Do not mount signs on trees or other signs.*** Posts may be wood, metal, carsonite or similar material. Where sign supports cannot be sufficiently offset from the road edge, supports will meet breakaway standards. Single wood posts with less than 24 square inches do not require breakaway design.

TEMPORARY/PORTABLE SUPPORTS: Portable supports may be used for short-term, short-duration, and mobile conditions. MUTCD defines this time period as one work shift, 12 hours or less. All portable supports must meet MUTCD standards, including breakaway. These must be a minimum of 1 foot above the road surface or more if visibility requires it.

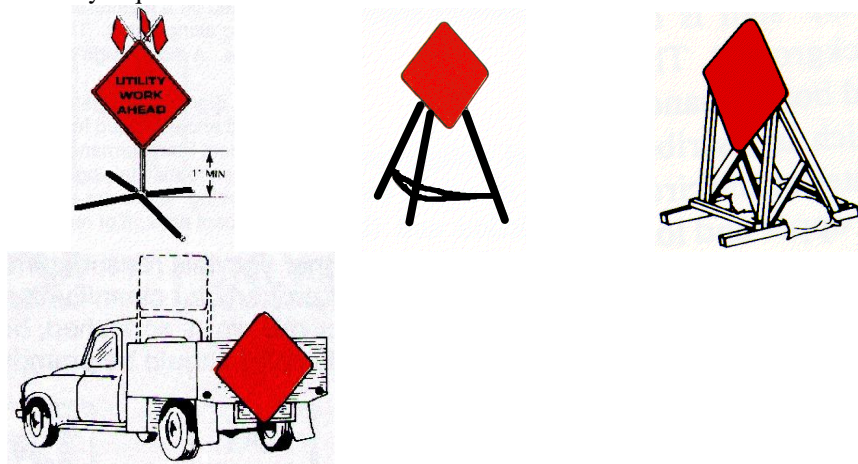
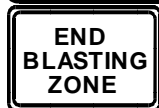
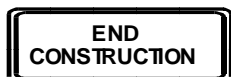


Figure 3: Examples of Temporary/Portable Supports

SIGNS

The following signs meet the intent of Timber Sale Contract Provision B6.33, SAFETY.

This is not a complete listing of signs that may be needed.



FG20-1-48*
FW22-3-30

FG20-2-48

FG20-3-42*

FG20-3a-42



FW20-1-30*
W22-1-36*

W21-3-30*

FW21-4a-30

FW11-7-24



FW8-6-24
W20-7aP-24*

* Specify Distance



FW11-9a-24



W7-3a-24*



W13-1-18**

** Specify Speed



BM-L-O



BM-R-O

Barricade Markers (See MUTCD for length and stripe size)

C6.332 - SAFETY (TIMBER HAULING) (10/04). Purchaser shall secure all products transported by truck with at least two chain or cable wrappers over the load, such wrappers being securely fastened to effectively contain every bolt or log in at least two places.

C6.339 – ACCIDENT AND INJURY NOTIFICATION (4/05). Purchaser shall notify Forest Service of any lost time personal injury accident or any accident or vandalism resulting in personal property damage over \$400 in value that occurs as a result of or is associated with Purchaser's Operations.

Purchaser shall notify Forest Service within 8 hours of any personal injury accident. For vandalism and personal property accidents, Purchaser shall notify Forest Service at the same time notification is given to the state and local law enforcement authorities.

Purchaser shall take all reasonable measures after an accident or vandalism event to preserve the scene of the incident and provide information to facilitate a Forest Service investigation.

The method of notification shall be agreed to in writing at the prework conference required by provision C6.10.

C6.351 # – WASHING EQUIPMENT (7/07). In order to prevent the spread of noxious weeds into the Sale Area, Purchaser shall be required to clean all "Off-Road Equipment" prior to entry on to the Sale Area. This cleaning shall remove all soil, plant parts, seeds, vegetative matter, or other debris that could contain or hold seeds. Only logging and construction equipment so cleaned and inspected by the Forest Service will be allowed to operate within the Sale Area. All subsequent

move-ins of equipment to the Sale Area shall be treated in the same manner as the initial move in. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

Purchaser shall employ whatever cleaning methods are necessary to ensure that Off-Road Equipment is free of noxious weeds. Equipment shall be considered free of soil, seed, and other such debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools is not required.

In order to prevent the spread of noxious weed species N/A the Sale Area, Purchaser shall be required to clean all off-road logging and construction equipment that operates in N/A prior to the equipment leaving N/A. Purchaser and Forest Service shall agree on methods of cleaning, locations for the cleaning, and control of off-site impacts, if any.

Unless otherwise agreed, Purchaser shall give the Forest Service at least 24 hours notice when equipment is ready for inspection. Notification will include an agreed upon location where the equipment will be available for inspection by the forest service.

New infestations of noxious weeds, of concern to Forest Service and identified by either Purchaser or Forest Service, on the Sale Area or on the haul route, shall be promptly reported to the other party. Purchaser and Forest Service shall agree on treatment methods to reduce or stop the spread of noxious weeds when new infestations are found. A current list of noxious weeds of concern to Forest Service is available at each Forest Service office.

C6.4# - CONDUCT OF LOGGING (10/82). Unless otherwise agreed in writing, silvicultural prescriptions and land management objectives shall be conducted and accomplished by the following requirements, methods and procedures:

Cutting Unit	Conduct of Logging
ALL UNITS	The sequence of Subdivisions shall be 1, 2. Operations on each Subdivision shall be completed and accepted prior to entry into the next Subdivision.
Tractor Units: 2, 2A, 4, 5, 6, 11, 15, 19, 20, 22, 26, 27, 29, 54, 55, 56, 57, 60, 61, 62	Trees shall be felled, insofar as safety permits, to angle in the direction of skidding. Tractor skid roads will be located, approved, and constructed in advance of falling. Logs shall be skidded with the leading end free of the ground. Tractor skid roads shall be no less than 75 feet apart, except where converging. Trees designated for cutting and/or logs will be left as rub trees along tractor skid roads as needed to protect young growth and leave trees.

	<p>Bucking of windfalls and down material is required in advance of construction.</p> <p>Skidding shall only occur during dry soil conditions as determined by the Forest Service.</p> <p style="text-align: center;">OR</p> <p>Skidding is allowed only over 18 inches of settled snow or frozen ground.</p>
<p>Skyline Units: 1, 2B, 2C, 5A, 7, 14, 14A, 14B</p>	<p>Except for lateral yarding, logs shall be yarded with the leading end free of the ground.</p> <p>Skyline corridors shall be located on the ground and approved in advance of felling.</p> <p>Yarding shall only occur during dry soil conditions as determined by the Forest Service.</p> <p style="text-align: center;">OR</p> <p>Skidding is allowed only over 10 inches of settled snow or frozen ground.</p>
<p>Forwarder Units: 8, 9, 10, 13, 13A, 13B, 16, 18, 21, 25, 58, 59, 59A</p>	<p>Skidding shall only occur during dry soil conditions as determined by the Forest Service.</p> <p style="text-align: center;">OR</p> <p>Skidding is allowed only over 10 inches of settled snow or frozen ground.</p>

C6.409# - SCARIFICATION (1/86). Unless agreed otherwise in writing by Forest Service, Purchaser shall machine scarify in Cutting Units **10, 18, 19, 56, 58, 59, 59A** in accordance with specifications listed below:

A minimum of 20 percent and a maximum of 35 percent of the workable ground surface uniformly distributed over the entire unit shall be scarified to bare mineral soil.

C6.42# - LOG FORWARDING (7/93). In Cutting Units **8, 9, 10, 13, 13A, 13B, 16, 18, 21, 25, 58, 59, 59A** designated "LF" (LOG FORWARDER) on the Sale Area Map, Included Timber on slopes less than 40 percent shall be carried free of the ground by a log forwarder as 18.5 foot or shorter logs. The log forwarder shall be all wheel drive, capable of self-loading and unloading, and have rear tires or track type tractive devices greater than 27 inches in overall width. Log forwarders with GVW's greater than 15,000 pounds shall have a minimum of three (3) load bearing axles. Stumps shall not be grubbed from forwarder strip roads except for portions requiring excavation for safety. All excavation and any supplemental skidding of Included Timber shall be flagged and preapproved in writing prior to commencing such activity.

Except for manually felled trees which exceed the harvesters capability, Included Timber shall be felled, limbed, bucked, and prebunched by a self-propelled mechanical harvester. The harvester shall place unmerchantable tops and limbs evenly in the strip road as it proceeds. Wherever residual trees require protection, strip roads shall not be more than 15 feet in width nor less than 50 feet apart.

Log landings and transfer points shall be limited to existing roads and turnouts unless otherwise agreed to in writing.

C6.6 - EROSION PREVENTION AND CONTROL (10/04). Unless otherwise agreed in writing, Purchaser shall complete erosion prevention and control work required in section B6.6, including Streamcourse protection, within 15 calendar days after completion of skidding and/or yarding operations for each landing.

Designation of on the ground work shall be done as promptly as feasible unless it is agreed that the location of such work can be established without marking on the ground.

During periods of accelerated water runoff, especially during the spring runoff and periods of heavy rainfall, Purchaser shall inspect and open culverts and drainage structures, construct special cross ditches for road runoff, and take other reasonable measures needed to prevent soil erosion and siltation of streams.

When operations are active outside the Normal Operating Season defined in A16, erosion control work will be kept current and will be completed as soon as practicable.

C6.601# - EROSION CONTROL SEEDING (3/07). Following completion of skidding and yarding operations in an area, Purchaser shall seed and fertilize all exposed areas of raw soil on skid trails, landings, firebreaks, slides, slumps, Temporary Roads and traveled ways of National Forest system roads scheduled for stabilization by Purchaser after operations. Special Provision C5.419# - SYSTEM ROAD STABILIZATION contains a list of the roads requiring seeding and fertilizing.

Soil on areas to be seeded shall be left in a roughened condition favorable to the retention and germination of the seed or as specified in Special Provision C6.633# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING SCARIFICATION.

Seed and fertilizer shall be spread evenly at the rate of **25** pounds of seed and N/A pounds of fertilizer per acre. When fertilizer and seed are applied in separate operations, the second operation shall be carried out within 72 hours of the first.

Application shall be during the period N/A to N/A and under the above specified conditions unless otherwise approved.

The kinds and amounts of seed to be sown in terms of pure live seed (PLS) shall be:

Species of Seed	PLS Pounds per Acre
Blue Wildrye <i>Elymus glaucus</i>	12
Mountain Brome <i>Bromus marginatus</i>	5
Bluebunch Wheatgrass <i>Pseudoroegneria spicata</i>	4
Slender Wheatgrass <i>Elymus trachycaulus</i>	4
Seed Total	25

Purchaser shall provide to the Forest Service:

1. Blue tags, or copies of blue tags from each seed lot used in the specified mix. Only certified, blue-tagged seed shall be used. The blue tag represents a field certification and serves as evidence of the genetic purity and varietal identity of the seed contained in the seed lot .
2. Labels which indicate the percentage composition of the various species in the seed mix.
3. Copies of Seed Analysis Reports from a certified seed analyst for each seed lot used in the specified mix. Purchaser will obtain this report from the seed provider. Seed Analysis Reports must include at a minimum, content of any noxious weed seeds listed on the current "State of Montana Noxious Weeds List". Only after the Forest Service has verified that this report indicates the seed does not contain any weeds on the current "State of Montana Noxious Weeds List", will the seed be accepted and used.

The following kinds and amounts of standard commercial fertilizer shall be used with guaranteed analysis of contents clearly marked on containers:

Type of Fertilizer	Pounds Per Acre
N/A	

C6.632# - TEMPORARY ROAD AND TRACTOR ROAD OBLITERATION (2/02).

Notwithstanding the provisions of B6.63 and B6.65, unless otherwise agreed, temporary roads accessing Cutting Units **ALL** and tractor roads within all units constructed for use with this sale shall be obliterated after they have served the Purchaser's purpose. Obliteration shall consist of recontouring road prism including all cut and fill slopes to natural ground contour. Equipment will not be permitted to operate outside the clearing limits. In addition, from 10 to 15 tons per acre of clearing or logging slash, stumps or other woody debris shall be placed and scattered uniformly on the top of the recontoured corridor.

C6.633# - TEMPORARY ROAD, SKID TRAIL/SKID ROAD AND LANDING

SCARIFICATION (2/02). Unless waived in writing by the Forest Service on specific roads, skid trails/skid roads or landings, all landings, skid trails/skid roads, and Temporary Roads constructed or used by Purchaser shall be scarified by the Purchaser following use.

Scarification shall span the width of the compacted areas and shall be done to a depth of not less than 4 inches, but not to exceed a depth of 14 inches, and must effectively prepare the ground for seeding.

Scarification shall be done during the period July 1 to September 30 unless otherwise approved. No scarification work shall be done during wet weather or when the ground is frozen or otherwise unsuitable.

C6.7 - HAZARD REDUCTION AND SITE PREPARATION (3/89). Purchaser's timing of product removal, hazard reduction and site preparation shall not unnecessarily delay Forest Service slash disposal, site preparation or reforestation. Purchaser shall perform hazard reduction and site preparation work in accordance with the Hazard Reduction and Site Preparation Plan and Map which are attached hereto and made a part hereof. Such work is in addition to Required Deposits for slash disposal.

<p>Limb and Top Removal: Units 1, 2, 2A, 2B, 2C, 4, 5, 5A, 6, 7, 11, 14, 14A, 14B, 15, 20, 22, 26, 27, 29, 54, 55, 57, 60, 61, 62</p>	<p>Purchaser shall leave tops and limbs of felled trees attached to Included Timber and yard them to landings within the entire cutting unit.</p> <p>Tops and limbs which are lost on the way to the landing site due to normal felling and skidding operations are not required to be yarded.</p>
<p>Slashing: Units 19, 21, 56</p>	<p>Purchaser shall fell all live and dead coniferous vegetation not meeting utilization standards over <u>2</u> feet in height, unless otherwise designated to be left standing. Stump height shall not exceed <u>6</u> inches from ground surface as measured on the uphill side. Trees shall be completely severed from the stump.</p>
<p>Machine Slash Piling: Units 8, 9, 10, 13, 13A, 13B, 16, 18, 19, 21, 25, 56, 58, 59, 59A</p>	<p>Purchaser shall machine pile all slash meeting the following specifications in cutting units shown on the Hazard Reduction and Site Preparation Map. Piles shall be compact, free of soil and of sufficient size to facilitate burning.</p> <p>Piles will be a minimum height of <u>5</u> feet and shall be placed no closer than <u>20</u> feet from the outside perimeter of the unit, system roads, wet areas, or other areas designated on the ground by the Forest Service. No pile or windrow shall be closer than <u>20</u> feet from any standing reserve trees. All material extending more than <u>3</u> feet beyond the outside perimeter of the pile shall be trimmed off and returned to the pile.</p> <p>The crawler-type excavator shall be equipped with a grapple or a bucket with a thumb, or a combination of both. The machine must be capable of reaching <u>20</u> feet either side of the machine and be able to pile slash at least <u>15</u> feet in height.</p> <p>To the extent possible Machine Piling must remain on skid trails.</p>

	In Log Forwarder specified units Machine Piling equipment must remain on forwarder trails.
Slashing Damaged Residuals: All Units	Purchaser shall fell all species over <u>2</u> feet in height not meeting minimum diameter specifications for Included Timber that are damaged beyond recovery by the Purchaser's Operations. Such trees shall be limbed to a stem diameter of approximately <u>3</u> inches, at which point the top shall be cut from the remainder of the stem. These stems shall be bucked into lengths shorter than <u>12</u> feet.
Landing Cleanup: All Units	A landing is considered a place where logs or products are gathered for loading. All slash accumulated at landings shall be piled. Piles shall be reasonably compact and free of soil to facilitate burning. Piles shall be of a size and location which will not impair road use or result in damage to residual timber. Piles shall be located at least <u>50</u> feet from residual timber.

C6.71 - CHANGE IN SLASH TREATMENTS (3/90). Slash treatment measures required in accordance with the Hazard Reduction and Site Preparation Plan and Map may be changed upon written agreement. The Forest Service shall determine the current cost of performing the work to be deleted and the work to be added. When the cost of work deleted exceeds the cost of work added, the agreement shall provide for a lump sum payment to the Forest Service for the amount of the difference.

C6.711 - BURNING BY PURCHASER (10/79). Purchaser shall obtain a written permit from Forest Service before burning any camp refuse, brush, slash or construction debris at any time throughout the year. The terms of the permit will set forth:

- A. Area or location where burning is permitted.
- B. Material to be burned.
- C. Safeguards, including help and equipment to control the fire.
- D. Special precautions to be taken before burning.
- C. Control action needed until the fire is out.

C6.753 - TEMPORARY ROAD CONSTRUCTION SLASH DISPOSAL (10/82). Unless agreed otherwise in writing, Temporary Road slash shall be disposed of or treated in accordance with the following:

A. All timber within the road clearing limits which contains a product meeting the minimum piece specifications stated in A2 shall be felled (not pushed over) and bucked in advance of road construction. All timber shall be felled within the clearing limits whenever it is feasible to do so.

B. Timber within the clearing limits not meeting minimum piece specifications in A2 and other debris from the clearing and grubbing operations more than three (3) inches in diameter and three (3) feet in length shall either be (a) utilized and removed from Sale Area, (b) burned within the right of way, (c) removed to designated locations shown on Sale Area Map for burying or later burning, (d) buried, (e) processed through a chipping machine, (f) scattered in such a manner as to avoid concentrations of slash and without damaging other trees or resource values, (g) decked, or (h) a combination thereof.

C. All material to be treated or disposed of shall be bucked into lengths not to exceed 20 feet before being piled or buried.

D. If debris is to be burned, burning shall be complete and shall be done at such times and in a manner approved in writing by Forest Service. Residual construction slash from burning shall be buried, scattered or removed to agreed locations.

E. Debris to be buried shall be placed in prepared holes, benches, or trenches at agreed locations and covered with not less than two (2) feet of native soil or rock. Slash and debris may be buried in the roadway providing hauling can be supported and providing there is little probability or hazard of slope failure.

F. If debris is to be chipped, the chips shall be spread over the surface of the ground in such a manner that their loose depth does not exceed six (6) inches. Chips may be mixed with soil within roadway.

G. Slash and debris may be scattered in those situations where the volume of slash or residual slash is relatively light and the adjacent stands of timber are sufficiently open to accommodate the scattering without damage.

D. If material is decked, logs not meeting Utilization Standards that are six (6) inches or more in diameter shall be bucked into lengths not to exceed 32 feet and piled at agreed locations.

C6.801 - SCALING (PULP LOGS) (10/04). A pulp log, as shown and specified in A2, shall be any log or portion of a tree, except western redcedar, dead or alive, not meeting sawlog specifications shown in A2 and containing at least 50 percent pulpable wood in terms of gross cubic volume. Normal sawlog scaling defects such as stain, shake, checks, crook, sweep, burls, knot clusters, pitch, worm holes, and firm rot are considered pulpable. Fire char is not considered pulpable. Defective logs that will break up under normal debarking operations are not considered pulpable.

Final piece, log, or load volume shall be in terms of gross cubic feet.

When pulp logs are manufactured and marketed in shorter minimum piece lengths than shown in A2, this shorter pulp log shall be considered as meeting Utilization Standards.

C6.822 - PRESENTATION FOR WEIGHT SCALING. (4/13) To facilitate the requirement of B6.82 that loads be presented so that they may be scaled in an economical and safe manner, and to aid in the accountability requirements of C6.840 or C6.848, Purchaser, unless otherwise agreed in writing, shall:

A. Utilize scales that meet the standard for commercial vehicle scales defined in the National Bureau of Standards Handbook 44, current edition.

B. Weigh all loads on scales currently certified by the State in which weighed. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency. No load shall be presented for weighing that weighs more than the certified capacity of the scales in use. Each load shall be weighed according to the *Instructions for Load Weighing and Accountability* posted at the weighing facility, with the gross and tare weights stamped and recorded by an automatic recording device on the scales. Loads shall be weighed in sequence, with the gross weight obtained first and the tare weight printed within two (2) hours of unloading. In addition to the gross and tare weights, Purchaser shall record the following information on each weight slip:

- a. Sale name
- b. Load Removal Permit number
- c. Date and time weighed

C. Maintain load accountability from the Sale Area to point of weighing. In so doing, the load of products shall remain intact while in transit. Products accidentally lost in transit shall be promptly identified by Load Removal Permit number and sale designation. Purchaser shall, within 48 hours, load out such lost products and present them for weighing or make other arrangements acceptable to Forest Service. Unless otherwise agreed, off-loaded logs will not be stored at State weigh station sites. Logs will be off-loaded onto an empty truck and will have a log load removal permit attached before proceeding from the weigh station. Purchaser is required to notify the Forest Service before off-loading of logs occurs. Off-loaded logs will be delivered immediately to the designated weight scales.

D. Clearly and legibly paint the last three digits of the Load Removal Permit number in **BLACK** paint on the back end of at least three (3) logs of every load transported from the Sale Area.

C6.823 - VOLUME DETERMINATION. (4/13) Volume determination shall be based on Weight Measurement unless otherwise agreed. Products shall be weighed on certified scales at locations approved by Forest Service. The weight slip, showing sale name, Load Removal Permit number, date and time weighed, and the gross and tare weights, shall be attached to the Scaler Permit and placed in the location(s) designated by the Forest Service.

In the event of weight scale equipment breakdown or suspension of use for other reasons, hauling shall be suspended until Purchaser and Contracting Officer agree to an alternate weighing location.

If Scaler Permits and/or weight slips are not provided for any reason, Forest Service shall use data from the records during the period in which loss occurred to determine weight of load(s). The weights of such load(s) shall be deemed equal to the load with the heaviest net weight presented during the payment period in which the loss occurred.

Payment for lost products may not be required if Forest Service determines that the weight of such lost products involved is small and justified by existing conditions.

C6.848 - WEIGHT ACCOUNTABILITY FOR SPLIT PRICING (3/12). Products sold on a basis other than single price for all products shall be accounted for as follows:

A. Requirements Applicable to Purchaser's Accountability Obligations:

- a. Where Purchaser's product accountability responsibilities are concerned, all operations performed by Purchaser's employees, agents, contractors, subcontractors, their employees or agents, Purchaser's obligations shall be the same as if performance is by Purchaser.
- b. Purchaser shall sort and deck separately the sawtimber and non-sawtimber products at the landing. The non-sawtimber products shall remain on the landing until released for hauling and weighing by the Sale Administrator.

B. Requirements Applicable to Product Removal Book:

1. Forest Service:

- a. Forest Service will issue to Purchaser or designated representative(s) serially numbered Product Removal Permit Books for sawtimber products for use only on this sale. Product Removal Permit Books whether used or unused are accountable property of Forest Service and shall be returned to issuing Ranger District in accordance with instructions contained on the inside cover of each book.
- b. The Product Removal Permits for non-sawtimber products will be issued by the sale administrator as needed to haul these products and are accountable property of the Forest Service. The non-sawtimber products will not be hauled until inspected and released by the sale administrator.

2. Purchaser shall require:

- a. All permits be filled out in ink by an individual named in writing other than the truck driver and be attached to load before products are hauled from immediate vicinity of or adjacent to location where loading is done showing date loaded, brand, sale name, and destination where products will be weighed. Permits shall be attached in accordance with instructions on inside cover of Product Removal Permit Book.
- b. Before Sawtimber products are hauled, truck driver will sign legal signature in ink on Woods Permit.
- c. Purchaser's Representative or other designated representative will sign legal signature in ink on Woods Permit for non Sawtimber products at time the permits are issued by the sale administrator.
- d. Purchaser shall assure that all used Scaler Permits are deposited in accordance with procedures established by the Forest Service.

C. Requirements Applicable to Weight Slips:

1. Purchaser shall assure that:

- a. All products removed are presented for weighing at agreed to locations and that gross and tare weights are obtained on certified scales.
- b. That weight slips are attached to proper Scaler Permit and deposited in accordance with procedures established by the Forest Service.

C6.849 - ROUTE OF HAUL. (4/13) As part of the annual Operating Schedule, Purchaser shall furnish Forest Service both a map and a written general plan for hauling Included Timber from Sale Area. The plan shall set forth:

- A. Designated haul route(s).
- B. Designated weight scales.

Such route of haul shall normally be the shortest, most economical haul route available between the points. Forest Service written approval of the haul route(s) and weight scales is required prior to commencement of Purchaser's hauling operations. The designated weight scales must meet the requirements contained in Standard Provision B6.814 at each weighing facility the Purchaser wishes to use.

Upon advance written request, other haul routes may be approved. All products removed from Sale Area shall be transported over the approved designated routes of haul. Purchaser shall notify Forest Service when a load of products, after leaving Sale Area, will be delayed for more than 12 hours in reaching weighing location. Such notification shall be made as soon as the Purchaser is aware of the delay and include the Load Removal Permit number, weighing destination and rationale for the delay.

Purchaser shall require truck drivers to stop, if requested by Forest Service, for accountability checks when products are in transit from Sale Area to the designated weighing location. Purchaser and Forest Service shall agree to locations for accountability checks in advance of haul. Such locations shall be established only in areas where it is safe to stop trucks. Forest Service shall notify Purchaser of the methods to be used to alert truck drivers of an impending stop.

C7.2 - NORMAL PRECAUTIONS (2/02). Specific fire precautionary measures are set forth below. Upon request of Forest Service, Purchaser shall permit and provide an individual to assist in periodic testing and inspection of required fire equipment. Purchaser shall promptly remedy deficiencies found through such inspecting and testing.

The following requirements shall apply during the period stated in A12 and during other such periods as specified by Forest Service.

A. Fire Extinguishers and Tools Required with Equipment. Each unit of powered equipment used in connection with this sale shall be equipped with serviceable tools and fire extinguishers acceptable to Forest Service as follows:

1. STATIONARY EQUIPMENT. Examples include yarders, log loaders, Hahn Harvester, stroke delimbers, roadside/landing based processors, whole tree chippers, rock crusher, asphalt plant, or other equipment working at fixed locations such as a landing or rock crushing site.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating.

One - 5-gallon standard galvanized metal, fiber glass or rubberized backpack water container, with hand pump attached, to be filled at all times.

Weatherproofed tool box marked "FIRE ONLY," equipped with a hasp, kept sealed, and containing:

One - Axe, double bit, 3.5#

Two - Shovels (round point #0 lady or equal)

Two - Pulaskis

The tool box shall be mounted on equipment, if feasible, unless another location is agreed to in writing. The tool box shall be within 100 feet of the designated machine at all times when operating. Only one (1) tool box is required at each active fixed location site.

2. MOBILE EQUIPMENT. Examples include crawler tractors, rubber-tire skidders, soft-track skidders, forwarders, feller-bunchers, feller-processors, excavators, front-end loaders, back-hoes, scrapers, and motor graders.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with a 4 B.C. or higher rating.

One - Shovel (round point #0 lady or equal). For equipping mobile equipment, an acceptable substitute is a "D-handle" round point shovel with a minimum 27-inch handle and a minimum 8- by 11-inch blade.

One - Axe, double bit, 3.5#, or one pulaski.

3. SUPPORT EQUIPMENT. Examples include trucks, low-boys, busses, pickups, panels, automobiles, service trucks, or similar equipment used in transporting logs, people, equipment, and/or materials.

One - Fire extinguisher, dry chemical type of not less than 2.5-pound capacity with 4 B.C. or higher rating

One - Shovel (round point #0 lady or equal)

One - Axe, 2# or over, 26-inch minimum length, or one pulaski

One - Bucket or similar water container (at least 1-gallon capacity)

4. POWER SAWS

One - Shovel (round point #0 lady or equal). Shovel shall be with gas containers and/or no more than 100 feet distance from where sawyer is working.

One - Fire extinguisher, containing not less than eight (8) ounces of extinguisher fluid or a dry chemical powder type of not less than one (1) pound capacity. The extinguisher shall be carried by the operator at all times.

Any fueling or refueling of a power saw shall only be done in an area which is free of or which has first been cleared of all material capable of carrying fire; such power saw shall be moved at least 10 feet from place of fueling before starting.

B. Fire Tools on Sale Area. Purchaser shall furnish and maintain in serviceable condition, in quantities and at locations to be designated by Forest Service, tool boxes, fire tools and other fire equipment to be used only for suppressing forest fires. Each tool box shall be weatherproofed and marked "TOOLS FOR FIRE ONLY" and kept sealed. These requirements are in addition to fire tool requirements for mobile, stationary, support or power saw equipment.

1. Special tool caches shall not be required when less than 20 people are employed on Sale Area, excluding logging truck drivers.

2. Operations employing more than 20 individuals on Sale Area, excluding truck drivers, shall furnish a tool cache with a minimum of one serviceable tool per person in the following configuration:

Axe, double bit, 3.5#, 10%

Shovels (round point #0 lady or equal), 45%

Pulaskis, 45%

C. Spark Arresters. Each internal combustion engine shall be provided with a spark arrester or spark arresting device approved by Forest Service. Exceptions where Forest Service may approve mufflers or other equipment in lieu of spark arresters qualified and rated under Forest Service standard 5100-1a are: (a) small multi-position engines, such as chain saws, shall meet Society of Automotive Engineers J335b standards, (b) passenger-carrying vehicles and light trucks may have baffle-type muffler with tail pipe, (c) heavy-duty trucks may have a vertical stack exhaust system with muffler, provided the exhaust stack extends above the cab of the vehicle, (d) an exhaust driven turbocharger is considered to be a satisfactory spark arrester. Internal combustion engine exhaust systems, arresters and other devices shall be properly installed and maintained.

D. Blasting. Fuse or prima cord shall not be used unless authorized in writing by Forest Service, with special precautions stated.

E. Smoking. Smoking shall not be permitted within logging operations except on surfaced or dirt roads, at landings, within closed vehicles, in camps or at other posted places. Smoking shall not be permitted while working or traveling on foot, within or through Sale Area.

F. Precautions for Stoves. Stovepipes on all temporary buildings, trailers, and tents using wood-burning stoves shall be equipped with roof jacks and serviceable spark arresters of mesh

with openings no larger than 5/8 inch. All stovepipes, inside and out, shall not be closer than two (2) feet from any wood or other flammable material or one (1) foot if the combustible material is protected by a metal or asbestos shield.

G. Debris Around Buildings. The grounds around buildings, tents and other structures shall be kept free of flammable material for a distance of at least 15 feet from the wall of such structures.

H. Storage of Petroleum and Other Highly Inflammable Products. Gasoline, oil, grease, or other highly flammable material shall be stored either in a separate building or at a site where all combustible debris and vegetation is cleared away within a radius of 25 feet. Fire extinguishers and/or sand barrels may be required at such locations specified by Forest Service when unusually hazardous conditions exist.

I. Debris Burning and Warming Fires. Burning permits shall be required throughout the year for all debris burning fires. Lunch and warming fires may be allowed in fireproofed areas during periods of low fire danger as specified in the fire plan. Such fires shall not be left unattended.

J. Cable Logging. All tail blocks and corner blocks shall be of an accepted haulback design which prevents line fouling and used with line guards. Such blocks shall be located to prevent cables from rubbing against trees, snags, down logs or rock when operating.

Areas adjacent to blocks shall be cleared of flammable material within a 5-foot radius. One (1) shovel and one (1) pulaski shall be maintained within 10 feet of each block.

K. Emergency Measures. Additional measures and/or other special requirements necessary during periods of critical fire-weather conditions shall be included in the fire prevention and presuppression plan.

L. Welding. Welding and use of cutting torches or cutoff saws will be permitted only in areas that have been cleared or are free of all material capable of carrying fire. Flammable debris and vegetation must be removed from within a minimum 10-foot radius of all welding and cutting operations. A shovel and a 5-gallon standard backpack water container filled and with handpump attached shall be immediately available for use in the event of a fire start.

C7.21 - PUMP AND TRAILER (7/71). Purchaser shall provide at a location satisfactory to Forest Service, a serviceable truck or trailer equipped with a firefighting tanker unit to be kept ready for instant use for suppressing forest fires. The unit shall consist of a tank of not less than 100-gallon capacity upon which shall be mounted a live hose reel or live hose basket with 250 feet of a least 3/4-inch I.D. heavy-duty rubber hose; a portable or power takeoff pump with discharge capacity of at least 10 gallons per minute at 150 P.S.I. pressure. Gear type pumps shall be provided with a bypass or pressure relief valve so the hose nozzle may be shut while the pump is operating. Each tanker unit shall have a hose nozzle of the shut-off type, adjustable for straight stream, spray or fog, at least 12 feet of 1-inch suction hose with an intake screen, an additional 250 feet of 3/4-inch heavy-duty rubber hose or 1-inch cotton jacket rubber-lined or linen hose to be carried on the unit for use as needed. Tools, adapters, accessories and fuel necessary to operate the pump and truck or trailer shall be provided. If a trailer is used, a serviceable vehicle with the proper trailer tow hitch shall be located at a point satisfactory to Forest Service. Where water is

available, a supply sufficient for rapidly filling the water tank shall be provided at one or more accessible points along or adjacent to the main truck roads.

C8.212 - MARKET-RELATED CONTRACT TERM ADDITION (11/08). The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in A20. Purchaser will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Purchaser's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Purchaser's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

- (i) The sale was awarded after December 31, 2006; and
- (ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Purchaser's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

C8.66# – USE OF TIMBER (4/04).

(a) This contract is subject to the Forest Resources Conservation and Shortage Relief Act of 1990, as amended (16 USC 620, *et seq.*).

(b) Except for None determined pursuant to public hearing to be surplus, unprocessed Included Timber shall not be exported from the United States nor used in direct or indirect substitution for unprocessed timber exported from private lands by Purchaser or any person as defined in the Act (16 USC 620e).

(c) Timber in the following form will be considered unprocessed:

(i) Trees or portions of trees or other roundwood not processed to standards and specifications suitable for end product use;

(ii) Lumber, construction timbers, or cants intended for remanufacturing not meeting

standards defined in the Act (16 USC 620e); and

- (iii) Aspen or other pulpwood bolts exceeding 100 inches in length.
- (d) Unless otherwise agreed in writing, unprocessed Included Timber shall be delivered to a domestic processing facility and shall not be mixed with logs intended for export.
- (e) Prior to award, during the life of this contract, and for a period of 3 years from Termination Date, Purchaser shall furnish to Forest Service, upon request, records showing the volume and geographic origin of unprocessed timber from private lands exported or sold for export by Purchaser or affiliates.
- (f) Prior to delivering unprocessed Included Timber to another party, Purchaser shall require each buyer, exchangee, or recipient to execute an acceptable agreement that will:
 - (i) Identify the Federal origin of the timber;
 - (ii) Specify domestic processing for the timber involved;
 - (iii) Require the execution of such agreements between the parties to any subsequent transactions involving the timber;
 - (iv) Require that all hammer brands and/or yellow paint must remain on logs until they are either legally exported or domestically processed, whichever is applicable; and
 - (v) Otherwise comply with the requirements of the Act (16 USC 620d).
- (g) No later than 10 days following the execution of any such agreement between Purchaser and another party, Purchaser shall furnish to Forest Service a copy of each such agreement. Purchaser shall retain, for 3 years from Termination Date, the records of all sales, exchanges, or dispositions of all Included Timber.
- (h) Upon request, all records dealing with origin and disposition of Included Timber shall be made available to Contracting Officer.
- (i) For breach of this Section, Forest Service may terminate this contract and take such other action as may be provided by statute or regulation, including the imposition of penalties. When terminated by Forest Service under this Section, Forest Service will not be liable for any Claim submitted by Purchaser relating to the termination.